
SOLB MISR
صلب مصر
SSC
DANIELI
7
شركة السويس للصلب
SUEZ STEEL CO.

شركة السويس للصلب
SUEZ STEEL CO.

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Suez steel Sustainability Overview

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Suez Steel Company

- Does not compromise when it comes to the health and safety issues of its employees, and other people who may be affected by the company operations, Strict quality and safety management system is in place with full compliance to international standards and practices.

- Makes sure that using top-notch technology ensures environmental protection, mainly through recycled steel use, energy saving, and air protection, also we have constructed plants with the sole aim of eliminating any potential environmental hazards.

- Deploys serious efforts towards eliminating the adverse impact of steel production on the environment and has taken the necessary steps to implement additional air protection processes and equipment, including dust collection systems and high-efficiency burners.

Fume Treatment Plant

The electric arc steel-making process generates a considerable number of fumes, which must be collected, filtered, and cleaned before being released into the atmosphere. The fume treatment plant meets local and international emission standards, by capturing both primary and secondary fume emissions within the steel melting plants.

Slag Treatment Plant

The plant allows the recycling and reuse of materials as an alternative to exploiting natural resources. It separates slag from its metal content and crushes it into .four different sizes, that can be reused in other industries, according to the National Slag Association regulations

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Together We Can

Suez Steel Company considers its human resources as the most important asset. Employees, individually and collectively contribute to the achievement of the strategic objectives of the organization. That`s why we attract and inspire people to work for the company.

Employees are continuously encouraged and supported by the management to develop their capacities within the company to the maximum limit, which can be achieved through continuous training and knowledge transfer.

Stakeholder	Communication tool	Needs &Expectations
Top management, shareholders	- Periodic meetings - Mails - Periodic reports	- Providing the company's needs with the required quality, appropriate price, and specified period to ensure workflow, increase production, and ensure the sustainability of the production process - Submit periodic and non-periodic reports that contribute to measuring performance according to the content of the report. - Contribute to the preparation, processing, and editing of files and reports of board meetings and completing them on Time - Financial profitability and sustainable business growth
All company departments	- Mails - Meetings	- Providing the needs of factories and departments on time, at the best prices and the required quality Provide complete technical studies with all data and submit them in time for decision-making before the specified supply date - Regular environmental measurements. - Awareness of the need to adhere to the safe handling of chemicals and hazardous materials.
SSC Employees	- Meetings - Mails -	- To be developed and compensated fairly and according to company policies to get all their rights - Safe work environment.
Regulators and governmental entities	- Letters - Audits - Inspections - Meetings	- Dealing with government agencies while preserving the rights of the company and leaving a good impression on those agencies by following the laws and legislation governing the activity - Ensure the effective implementation of laws and regulations. - Good communication flow between Suez Steel Company and governmental entities. - Fully aware of the new updates of laws and legislation.
Banks	- Letters - Meetings - contracts	- Adhere to the terms of the contracts for the facilities granted, as well as the dates for payment of dues, following what is stipulated in the contracts.
Certification bodies	- Meetings - Letters - Mails	- Compliance with the requirements of all ISO and sustainability standards. - Facilitate the work of auditors during the visit. - Compliance with legal requirements.
Consultation - bodies	- Meetings - Letters	- Implementation of all the recommendations of the consulting body related to the ISO and sustainability items and their application.

Stakeholder	Communication tool	Needs &Expectations
	- Mails	- Compliance with the requirements of all ISO and sustainability standards. - Compliance with legal requirements. - Facilitate the tasks of the consultation body.
- suppliers (product or service)	- Meetings - Letters - Mails	- Completion of inspections of materials that are supplied to warehouses quickly so that the supplier can recover his dues. - Facilitate the supplier's tasks during the process of supplying the product, service, or maintenance work. - Ease of communication, facilitation of work procedures, clarification of requirements, and timely payment of dues - Commitment to the terms of the contract - Preserving the supplier's property and intellectual rights - Evaluating the supplier effectively reflects its - Providing the necessary spare parts for the maintenance work carried out by the supplier - Improving their process by providing training and awareness about the new requirements in the market.
Customer -	- Meetings - Letters - Mails - Surveys	- Providing high-quality products at competitive prices. - Respond to any inquiries. - Solve any complaints if appear (effectively and on time)
- The surrounding environment/ Neighboring factories and companies	- Letters	- Providing support to all parties surrounding the company to contribute to the development of the surrounding environment and to participate in resolving emergency crises.
- Society	Seminars - Conferences -	- Raise awareness about protecting nature and reducing the impact of climate change through effective community participation. - Increase annual social initiatives
- Local communities (Schools and Universities)	- Meetings - Training programs	- Train the students during the summer holiday to develop society - Sponsoring Students in cooperation with STA to have a future talent pool for recruitment

[redacted]

According to the Suez steel metric, we classified <u>4 categories</u> of materiality matrix based on the importance of the organization's strategy and the stakeholders' interest as follows:

- **For more interpretation the category of high -high will be in the category of Suez steel metric very high.**
- **According to the SCS materiality matrix we decide to take some aspects of high -low and low-high categories to be embedded in high and medium categories of Suez steel metric.**
- **And finally, the category of low-low will be in the category of Suez steel metric low**

Very high	High
1. Safe and Healthy Working Conditions 2. Customer focus 3. QHSEES compliance (quality, health, safety environment, energy &security) 4. GWP and GHG emissions 5. Air emissions 6. Health and Safety performance 7. Human Rights 8. Energy Use 9. Water Use 10. Waste 11. Modern slavery 12. Emergency preparedness and responsiveness 13. Product cost 14. supply chain management	15. market presence 16. Skills and Training 17. Local purchasing 18. Fair payment practices 19. Fair wages
Medium	**Low**
20. Child Labour 21. Pursuing Innovation 22. Gender Equality 23. Community relations 24. Primary Material Use and Materials Efficiency 25. Renewable Energy use 26. Stable Employment 27. Emissions to water	28. Eco-toxicity 29. Biodiversity 30. Transport 31. Supporting SME's 32. Freedom of Association

Materiality matrix criteria according to SCS	SSC metric
High -high	Very high
High -low	High
Low-high	Medium
Low-low	low

[redacted]

sustainability management	• Evaluate our key raw material suppliers for their sustainability impacts • Reporting Sustainability Performance to Stakeholders by 2024
Environment	•Decrease amount of waste to be disposed to landfill
Social	• Decrease Lost Time Injury Frequency Rate (Lost time injuries) • Increase Skills and Training of employees • Increase in community initiatives
Economic	• Increase the local employment

[redacted]

OBJECTIVE	*TARGETS*	*Summary*	*Status*
Sustainability Management	Evaluate 70% of key raw material suppliers for sustainability impact by 2023	Establish, approve, send/receive and analyze supplier questionnaire	Achieved Tier1 suppliers has been evaluated for sustainability impacts
	Achieve 50% of primary raw material suppliers are traceable to their sustainability impacts	evaluate current status of supplier's sustainability performance and developing sustainability policies templates to be sent to targeted suppliers as a contribution for responsible sourcing	Achieved
	Decrease amount of waste to be disposed to landfill by 10%	optimizing production processes, promoting recycling and reusing	Achieved 70.15 reduced to 63.41 Kg waste to landfill /Ton of steel
Social	Decrease Lost Time Injury Frequency Rate (Lost time injuries by 2023 with 20 %	OHS training program, promoting safety culture through Participation of all worker by Hazard report notification and implementation of periodic inspection plans	Achieved LTI was 75 for 2020 reduced to 27 LTI for 2023
	Increase Skills and Training of employees by applying 27.366 training hours for 1354 employee by the end of 2023	Identify the training needs, Establishing and implementing training plan	Achieved 34970 training hours applied
	Apply 30 training program technical &, administrative with 72 training courses by 2023	Identify the training needs, Establishing and implementing training plan	Achieved 72 training courses performed
Economic	Increase the local purchasing of ferrosilicon raw material by 2023	Communicate with local suppliers, request samples for analysis to verify specification	Achieved local purchasing increased by 10 % of total raw material purchasing

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Sus. principles	Practice	Maturity			Objectives /plans /programs
		Immature	Engaged	Proactive and learning	
Inclusively	Stakeholder identification and mapping			A comprehensive list of stakeholders has been created, communication matrix updated semi-annual customer complaints stakeholder complaints follow-up	1. The policy, and manual 2. Factory information given by Internet, meetings, etc. be reported 3. stakeholder and complaints 4. Communication procedure 5. stakeholder list publication
	Open engagement in various formats for various stakeholders			Relationships between our employers, investors, suppliers, customers, local people, and media transparency and information. Stakeholders opinions have been collected to identify the stakeholder priorities	1. Stakeholder survey evaluations. 2. Communication procedure 3. Records of correspondence. And complaints if any.
	Stakeholder issue identification		identify stakeholder priorities and suggestions, stakeholder opinions have been collected by various modes of communication, (mail, company website)		1. Records of correspondence 2. communication matrix. 3. commercial procedure 4. sales procedure
	Communication of organization response to issues raised		Issues are resolved by using various modes of communication like		1. Stakeholder communication matrix 2. Communication procedure 3. Records of correspondence.

Sus. principles	Practice	Maturity			Objectives /plans /programs
		Immature	Engaged	Proactive and learning	
			emails, phone, meetings, etc		
Integrity	The leadership has shown - clear Accountabilities documented			ISO 9001, ISO 14001, ISO 45001 and SCS Sustainability Management system certifications	1 ISO 9001-14001 and ISO 45001 certifications 2-policies 3-Sustainability Management system certifications
	Code of Conduct adopted			Management system policy, supply chain ethical principles, and objectives integrated with organizational purpose, vision, and values	1. code of conduct policy 2. Objectives and Targets 3. company by-laws
	Integrity risks identified and managed			Environmental Aspect Impact Register, Hazard Identification, Risk Assessment Register, Risk and Opportunity Register	1. Business risk procedure 2. Risk management system procedure 3. Risk Analysis 4. Risk Registers
Stewardship	Sustainable development culture			Sustainability Management system certification Sustainability Objectives Sustainability risks and opportunities	1. Sustainability annual report 2. sustainability policy 3. sustainability awareness to all levels of employees
	Responsible/Sustainable Supply chain approach adopted			Suppliers' evaluation based on sustainability criteria Suppliers were selected from firms which approvals to ISO 9001 ISO 14001 and ISO 45001. Sustainability aspects of the Location of the suppliers and type of material used have been taken into account.	1. sustainability policy 2. sustainable procurement policy 3. responsibility to sustainability principles policy

Sus. principles	Practice	Maturity			Objectives /plans /programs
		Immature	Engaged	Proactive and learning	
				promoting local purchasing commercial procedure	
	Systematic Environmental Management			ISO 14001 certificate Potential environmental impacts and risks have been investigated and decisions on work have been. made Environmental permits and licenses, Environmental impact assessment for new projects	1. Environmental Aspect Impact Register 2. ISO 14001 Certificate 3. Life Cycle assessment 4. carbon footprint report
	Systematic Social Management			Applying the Employment and social rights principle Avoiding child labor, forced labor Applying Egyptian laws and company by-laws	1. Human Right Policy 2. recruitment procedure 3. social management procedure
	Systematic Economic Management			Top management provides support for the local economy and improves ethical supply chain practices.	1. sustainability policies 2. commercial procedure
	Skills and training		Numbers of training have been given based on annual plans for career and skills development and knowledge transfer.	EL Sewedy Academy for secondary students to deliver vocational education in Al-Sewedy Academy	1. Human Resource Procedures 2. Training Records 3. Targets on career development
	Career development			Methods have been created for performing and assessing increasing conscious level, implementing management systems efficiently , planning necessary training, to provide continually improvement	1. Training procedure 2. Training plan 3. Training Records

Sus. principles	Practice	Maturity			Objectives /plans /programs
		Immature	Engaged	Proactive and learning	
Transparency	Identify appropriate metrics/KPIs			sustainability Performance indicators of all departments have been identified and followed up Record of Sustainability Management, Record of Environmental Aspects, Record of Social Aspects, Record of Economic Aspects	1. Objectives and Targets 2. Risk registers
	Monitor performance			Occupational Health and Safety Procedure Environmental Management System Procedures	1. objectives and targets 2. action plans 3. KPIs
	Publicly report management practices and performance			SSC website: www.solbmisr.com	Web: www.solbmisr.com
	Review performance		Performance indicators have been reviewed annually or semi-annually in Top Management Review		1. Management Review Meetings 2. management reviews the minutes of the meeting 3. Environmental product declaration that will be published on the company website 4. sustainability report that will be available on company website

KPI	Unit	Organizations Input (Previous Reporting Period)	Organizations Input (Reporting Period)
Gender Pay Equality			
Average (median) income of men	Local Currency	13,041.00	16,250.00
Average (median) income of women	Local Currency	12,239.00	15,184.00

KPI	Unit	Organizations Input (Previous Reporting Period)	Organizations Input (Reporting Period)
Gender Equality			
The percentage split in the gender of the total workforce expressed as %Male/%Female	%/%	98%/2%	98.2%/1.8%

KPI	Unit	Organizations Input (Previous Reporting Period)	Organizations Input (Reporting Period)
Lost time injury frequency rate (LTIFR) LTIFR: (LTI) / (WH / 1,000,000)			
Total number of lost time injuries of employees and permanent contractors (if any) during the data collection/reporting period - LTI	-	45.00	27.00
Total number of work hours of employees and permanent contractors (if any) during the data collection/reporting period - WH	-	6,273,280.00	6,273,280.00
L T I F R	-	7.17	4.30
Change	%	-40%	

[redacted]

Raw material traceability

No.	Raw material	Traceability status
1	Iron ore	Traceable to origin
2	Imported/home scrap	Post consumer scrap gathered from unspecified origins
3	Ferroalloys	Traceable to origin
4	Lime stone	Traceable to origin

Final products traceability

Since traceability of a product is very crucial for clients to follow every step of a product's origin. For raw material traceability, SSC purchases iron oxide pellets from well-known pellet producers across the world, which can be traced back to the origins of the delivery packages from vendors. Comparably, steel scrap that is purchased domestically or internationally can be tracked down to the supplier or dealer. Well-known throughout the world, the raw material suppliers are dedicated to enhancing labor conditions, human rights, and health and safety standards.

For Semi-final products (billets) that have passed the last inspection, they are sent to the racks of Rolling Mills billets for rolling, identifiable by heat number and steel grade. All final products (rebars, coils, spools,) which have passed the final inspection (Dimension, Unit Weight, and Surface), are arranged in the racks designated for finished products and can be recognized by at least two labels produced from a durable material (ex: Graphiplast "PCP" Plastic Coated Paper) and can withstand up to 300 C°, these labels identify the product by:

- Production date, working shift, working group, Heat Number & Work order

- Product size, grade & standard

- Packing information

The labels also have different colors corresponding to the grade of steel, and all rebar bundles will be painted with colors corresponding to size. Additionally, upon product shipping to the customer, a material test certificate is provided that enables customers to follow the production history

each packing unit (bundle, coil, spool) is given a unique product serial printed on its label. The serial consists of 18 digits as follows:

Note 1: The heat number consists of 5 digits (1 for Steel plant + 4 for heat serial number)
Note 2: The date is in the format of YYMMDD
Note 3: P (digit 12) is the plant/product type as follows:
K: RM1/ Rebar C: RM2/ Coils S: RM2/ Spool R: RM2/ Rebar in coils L: RM3/ Rebar
Note 4: The last three digits of the serial is an automatic unit counter cycling from 001 to 999 & restarts at the beginning of each production day.

Reduce

- SSC minimize the amount of waste produced, by using high quality of used raw material in a way that reduces the generation of waste, their waste components and the waste generated during production as well as after the consumption of the material or product;

Reuse

- SSC seeks to re-use a product or rejected material more than once, by re-using rejected billets, shorts and trimmings as an input for new materials and products;

Recycle

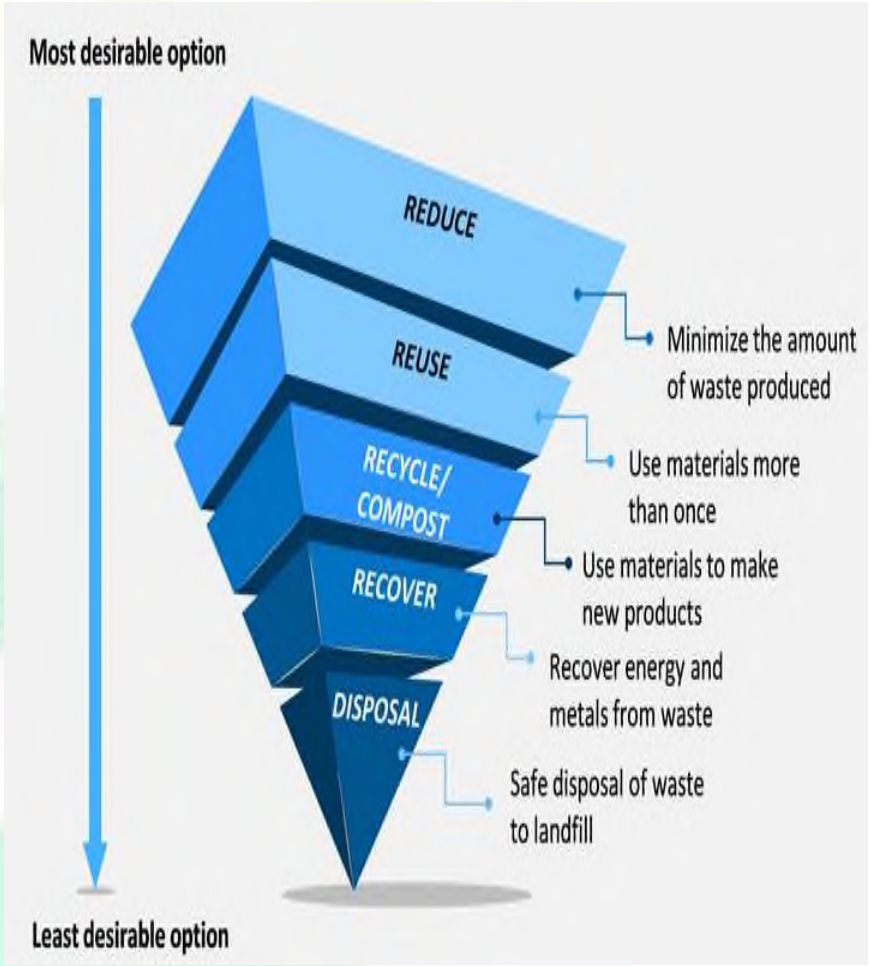
- SSC use the material to make new products, this includes the separation of materials from the waste stream and its processing as raw materials or products. The foundation of the 'cradle-to-cradle' waste management approach is the first elements of the waste management hierarchy;

Recover

- SSC recover energy and metals from waste, by extracting metallic elements from slag to be used again in steel plants, some types of wastes used to increase thermal energy in steel plants.

Disposal

- hazard and nonrecyclable materials are disposed in landfills, in accordance with the principles of environmental regulations



Waste management hierarchy

[redacted]

SSC Vision

We are committed to sustainable growth in the steel industry regionally and globally through fully integrated and advanced steel manufacturing using the updated technology for excellence and high-quality products.

SSC Mission

Consistent investment to improve its diversified products and human capital to exceed expectations with relentless enhancement in processes, systems, efficiency, effectiveness, new products launching, and customer service.

Strives to achieve a long-term partnership with our stakeholders and we are committed to fairness, values, quality, excellency, and to be a friendly environmental place.

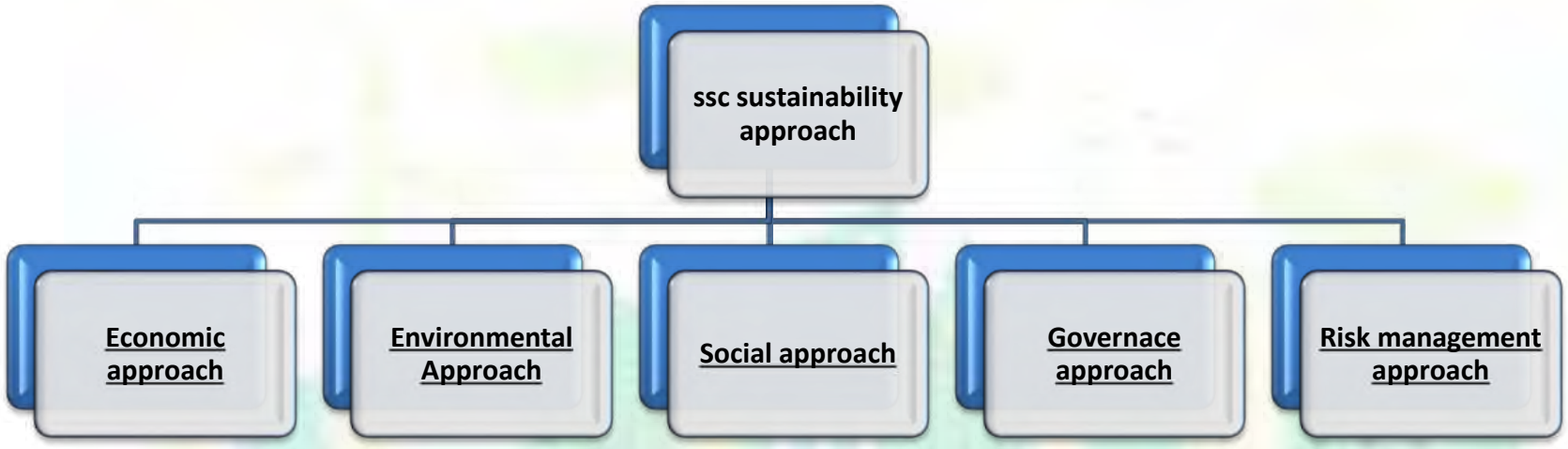
Suez Steel Co. supports and develops the community through its corporate social responsibilities' programs and initiatives.

SSC strategies

- SSC developed the new Sustainability Road Map 2023 – 2028 with new objectives, based on benchmarking with regional and international steel companies and in accordance to global vision 2030.
- Increased product traceability by supplying rebars with product tag comprising of 'QR Codes' and 'Hadidna Quality Mark'.
- SSC central labs are accredited by EGAC in accordance with ISO/ IEC 17025 -2017, for chemical and mechanical testing of steel products in tensile test for steel and some chemical tests for iron ore, carbon steel and low alloy steel. This accreditation enables us to further maintain our reputation as a company that follows the highest standards in product quality meeting global market needs.
- SSC central labs are accredited to be dependable for international third party like (SGS).

- Suez Steel Co. (Social Responsibility) developed an academic curriculum in association with Elsewedy Co. targeting secondary students to deliver vocational education in Al-Sewedy Academy located in 10th of Ramadan city, the specialized academy employs lecturers from different vocational education fields in addition to on job training and a section for iron and steel industry has been integrated into the academy curriculum.
- SSC developed its life cycle assessment by external sustainability consultant By EN 15804+A2 & ISO 14025 / ISO 21930 guidelines.in addition to having more challenges by publishing its EPDs through different platforms.

[redacted]


ssc sustainability approach
Economic approach
Environmental Approach
Social approach
Governace approach
Risk management approach

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SSC material sustainability impacts

Material Aspects			Ability to influence (high/low)	Material Aspects			Ability to influence (high/low)
				Air emissions	Energy Use	Safe and Healthy Working Conditions	
				Human Rights	customer focus	GWP and GHG emissions	
						OHSEES compliance	
	Community relations				Health and Safety performance		
		Local purchasing					
					Water Use		
Stable Employment							
					Waste		
					Modern slavery		
	Fair payment practices						
				product cost	supply chain management	emergency preparedness and responsiveness	
				Child Labour			
				Primary Material Use and Materials Efficiency		Pursuing innovation	
					Skills and Training	Gender Equality	
					Renewable Energy use		
					Fair wages		
		Freedom of Association				market presence	
	Eco-toxicity				Emissions to water		
	Biodiversity						
	Supporting SME's	Transport					

less <---- Importance to Delivering Organisation: Strategy ----> more

less <---- Importance to Environment, Stakeholders and Society ----> more

Marketing Approach

SSC responsibility of marketing is going through the following phases:

Phase 1 :- Marketing plan:
The marketing plan includes the company's strategic vision, marketing objectives and all marketing activities

Phase 2-Approval of the marketing plan:
Reviewing the marketing plan is according to SSC policy up till final approval according to top management vision.

Phase 3-Do:

All necessary actions are taken such as:

- Advertising activities in television, radio, press and outdoor advertising.
- Promotional activities such as exhibitions, conferences and sponsorship of official, social, sporting and recreational events.
- Publicity activities such as catalogues, prints and gifts.
- Activate the presence of the company on social media sites, including the company's website.
- Any other marketing activities that fall under the agenda of the marketing plan.

Phase 4: check Customer Opinion Survey Implementation Mechanism

Evaluation and assessment of customer opinion and complaints are considered as inputs on purpose of continual improvement.

[redacted]

Phase 1- Sales plan

Determination of sales plan has its inputs during communication activities with customers and on purpose of communication SSC contacts are declared on SSC website, further to that SSC is committed to share a lot of exhibitions inside and outside Egypt.

Phase 2-

All interested parties inside SSC (sales, supply chain, production, quality) taking all necessary actions according to national and international standards to achieve the plan taking into consideration the quality of the product and customer satisfaction

Phase 3: check Customer Complaints:

All critical issues related to the product and the processes are assessed and evaluated on purpose of all recommended actions to be taken in order to avoid customer complaints and achieving customer satisfaction, expectations and desires

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Phase 4:

All processes and activities are reviewed according to SSC system management (quality, safety, environment) to ensure its capability of continual improvement

Supply chain approach

SSC responsibility of supply chain is going through the following phases

Phase 1 Supplier Selection Process:

New suppliers are registered on the supplier registration form taking into consideration sustainability requirements.

Phase 2: supplier evaluation:

Suppliers are evaluated every 6 months, based on the follow-up performance of suppliers according to the following criteria

- Quality standard (adherence to technical specifications).
- Standard of compliance with the duration of supply.
- Price suitability standard.
- Meet the requirements of safety, occupational health and the environment.
- Impact on energy performance.
- Sustainability performance

Phase 3: check Inquiries and Complaints:

• Suppliers' inquiries/complaints are received through the official mail of the company info@suezsteel.com which is available on the company's website through the office of the general manager of the company or through the management of supply chains

PRODUCTS
المنتجات

شركة السويس للصلب
SUEZ STEEL CO.

Hadidna FROM SOLB MISR

FROM **ORE** TO **CORE**

Index / فهرس المحتويات

Solb Misr

A Holding group and owner of **Suez Steel Company**, producing all types of steel products including rebars, wire rods, spools, Cut and Bend portfolio.

Suez Steel Company

An integrated steel complex comprised of DRI plant, two melting shops, three rolling mills, in addition to that, there are several supporting factories to complete the production cycle. Notable, all these factories are in Suez governorate.

Hadidna

It is the trademark for all our steel products, ensuring to meet the top world class quality standards.

Vision

Suez steel Company is committed to sustainable growth in the steel industry within the region and globally through fully integrated, environmentally friendly, and advanced steel manufacturing using the updated technology for excellence and high quality products.

Mission

Suez Steel Company continuously invests in improving its products, human capital, and constantly seeks to exceed expectations with relentless improvement in processes, systems, quality, efficiency, new products launching , human development, and excellent customer service.

Suez Steel Company strives to achieve a long-term relationship and partnership with its Stakeholders and is committed to values; fairness, transparency, and excellency.

Suez Steel Company supports and develops the community through its Corporate Social Responsibility programs, initiatives, and maintain sustainability to the environment.

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صلب مصر

مجموعة مصرية مالكة لشركة السويس للصلب لإنتاج كافة منتجات الصُلب من الأطوال واللفات بالاضافة إلى البَكر ومنتجات القطْع والثني.

شركة السويس للصلب

مُجمع متكامل لإنتاج الصُلب، يتألف من مصنع للاختزال المُباشر، مصنعين لصهر الحديد، وثلاثة مصانع للدرفلة بالإضافة إلى مجموعة من المصانع المساعدة لإتمام العملية الإنتاجية، وجميع هذه المصانع تقع في محافظة السويس.

حديدنا

العلامة التجارية لمنتجات الشركة والتي تمثل ضمان الجودة العالمية لكافة المنتجات التي تحملها.

الرؤية

تلتزم الشركة بتوفير النمو المستدام في صناعة الصُلب اقليمياً وعلى الصعيد العالمي أيضاً، وذلك من خلال تصنيع الصُلب بكل مراحله بأحدث الطرق التكنولوجية وأكثرها أماناً وصديقة للبيئة، من اجل الحصول على أكثر المنتجات تميزاً وأعلاها من حيث الجودة.

المهمة

تقوم شركة السويس للصلب بالاستثمار بشكل مستمر لرفع جودة منتجاتها ورأس المال البشري الخاص بها، علاوة على ذلك تسعى الشركة أيضاً باستمرار جاهدة لتجاوز التوقعات من خلال التحديث والتحسين المستمر لمراحل التصنيع المختلفة وأنظمتها وبالتالي رفع الجودة والكفاءة علاوة على إصدار المنتجات الجديدة والنهوض بالتنمية البشرية وخدمة العملاء.

تسعى شركة السويس للصلب بكل قوة وتبذل كل جهد لتحقيق علاقة متينة وشراكة طويلة الأمد مع كافة شركاء النجاح، علاوة على التزام الشركة بأعلى القيم والأمانة والشفافية مما يصل بها إلى أعلى درجات الرقي والتميز.

تدعم شركة السويس للصلب بقوة المجتمع ككل وتعمل بكل جهد على تطويره وذلك من خلال إطلاق البرامج وإرساء المبادرات وتحديد المسؤوليات الاجتماعية للشركة، مع المحافظة على الاستدامة البيئية.

المقر الرئيسي
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المصنع
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FROM **ORE** TO **CORE**

SOLB MISR is an Egyptian steel group producing a wide range of steel by-products, semi-finished, finished, and downstream steel, coping with the international standards.

The group operates through **Suez Steel Company**, an integrated steel complex comprised of the following:

- Direct reduction plant with a capacity of 1.950.000 tons per year.
- Two melting shops with a capacity of 2.050.000 tons per year.
- Three rolling mills with a capacity of 2.050.000 tons per year.
- Cut & Bend plant with a capacity of 60.000 tons per year.
- Several supporting factories to complete the production cycle.

All the above factories are located in Suez Governorate.

Through its collaboration with top-notch equipment, and raw material suppliers, **Suez Steel Company** offers infallible quality to its customers. **Suez Steel Company** is aware that steel is a highly demanding and competitive industry, as such, the company adopts a policy of ongoing investment in its plants, and human resources in order to ensure that its capabilities keep pace with evolving market demands.

Such commitment to continuous improvement has positioned **Suez Steel Company** as the go-to steel supplier for local, regional, and international clients. Today, **Suez Steel Company** has earned a reputation for being a company of dedicated professionals, committed to quality products, efficient processes, and continuous development.

من الخام إلى الصلب

تُعد **مجموعة صُلب مصر** من أكبر الشركات المصرية التي تقوم بإنتاج منتجات متعددة من الصُلب مصنفة الي منتجات نهائية ونصف نهائية وثانوية وذلك وفقاً للمعايير الدولية.

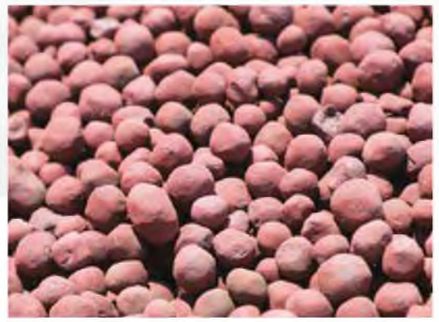
تعمل المجموعة من خلال **شركة السويس للصلب** التي تشكل مُجمّعاً متكاملاً لإنتاج الصُلب وتتضمّن المصانع التالية:

- مصنع الاختزال المباشر بطاقة إنتاجية تبلغ ١،٩٥٠،٠٠٠ طن سنوياً.
- مصنعين لصهر الحديد بطاقة إنتاجية تبلغ ٢،٠٥٠،٠٠٠ طن سنوياً.
- ثلاثة مصانع للدرفلة بطاقة إنتاجية تبلغ ٢،٠٥٠،٠٠٠ طن سنوياً.
- مصنع تشكيل الحديد بطاقة إنتاجية تبلغ ٦٠،٠٠٠ طن سنوياً.
- مجموعة من المصانع المساعدة لإتمام العملية الإنتاجية.

جميع المصانع السابق ذكرها تقع فى محافظة السويس.

من خلال تعاونها مع أفضل موردي المُعدّات والمواد الخام على مستوى العالم ومتابعة أحدث ما وصل إليه العلم في صناعة الصُلب، تقوم **شركة السويس للصلب** بتوفير أفضل مستويات الجودة في صناعة الحديد. نعي تماماً أن صناعة الحديد شديدة التنافسية و ذات متطلبات عالية التحدي، وبالتالي تنتهج الشركة سياسة الاستثمار المستمر في مصانعها المتعددة وفي العامل البشري لضمان استمرارية توافق إمكانياتها مع المتطلبات المتنامية لاحتياجات السوق.

بفضل هذا التفانى فى سبيل التطوير، أصبحت **شركة السويس للصلب** مورّد مُفضل ومُستدام بين عملاء محليين وإقليميين وعالميين، وعلى مدار الأعوام اكتسبت **شركة السويس للصلب** فريقاً كبيراً من الاختصاصيين المتفانيين والملتزمين الذين يتميزون بأعلى مستوى من الاحترافية والكفاءة المهنية مما يميزنا لنتفرد في الوصول لأعلى مقاييس الجودة، والكفاءة في عمليات الإنتاج.



Direct Reduced Iron (DRI)

Source of a clean and rich-in metallic Iron component. Suez Steel Company produces in consistent quality a high Fe, low residual metallic material required for producing high quality steel products in a wide variety of furnaces.

Benefits of using DRI in the EAF

- Very low residual element content.
- Can be continuously fed to the furnace at 600 °C with power saving 100 KWH/Ton.
- Predictable, uniform & certified chemical analysis.
- Can be hot-charged in integrated plants.
- Predictable mass and heat balances.
- Better slag foaming.
- Carbon content can be tailored to EAF requirements.
- Control of Nitrogen in steel.
- Easier to handle than scrap.
- Melt consistency.
- Environmentally friendly.

Chemical parameters

- Total Iron (Fe t %) 88% min. –typical 91%.
- Metallic Iron (Fe m%) 85% min. – typical 86%.
- Metallization 93-94% min – typical 93.5%.
- Carbon (C%) 2 – 3% - typical 2.5%.
- Sulphur (S%) 0.01% max.
- Gangue (SiO_2, CaO, MgO, Al_2O_3 %) 5.5 % max

Size parameters

Available in pellets with diameter size (9-16) mm.

High Reactivity Burnt Lime

Suez Steel Company lime is a high calcium quicklime (calcium oxide – CaO) which is highly reactive, for reliable results.

Suez Steel Company burnt lime is suitable for a wide range of applications such as, iron purification, preserving heat refractories, waste treatment and agriculture. Fine lime products are available in a choice of size to meet customer requirements.

Chemical parameters

- Loss on ignition from 2% to 6%.
- Calcium oxide from 88% to 90%.
- Silicon oxide (SiO_2) max. 3%.

Size parameters

Available in many sizes:

(0 – 5) mm, (5 – 15) mm, (15 – 50) mm.

Dolomitic Quicklime

Dolomitic quicklime is lime made from high-quality deposit of dolomite stone which contain magnesium carbonate ($MgCO_3$) by percentage of 40% up to 44% and calcium carbonate by percentage of 50% up to 55%, the dolomite stone is burnt in high technology kiln getting a perfect quality of (CaO + MgO).

Suez Steel Company dolomitic quicklime is suitable for

a wide range of applications, which include:

- Iron and steel making.
- Environmental applications.
- Production of heat refractories.

And many other applications.

Chemical parameters

- MgO...from 30% up to 35%
- CaO...from 50% up to 55%
- SiO_2...max 1%

Size parameters

Available in bulk size (50-5) mm.

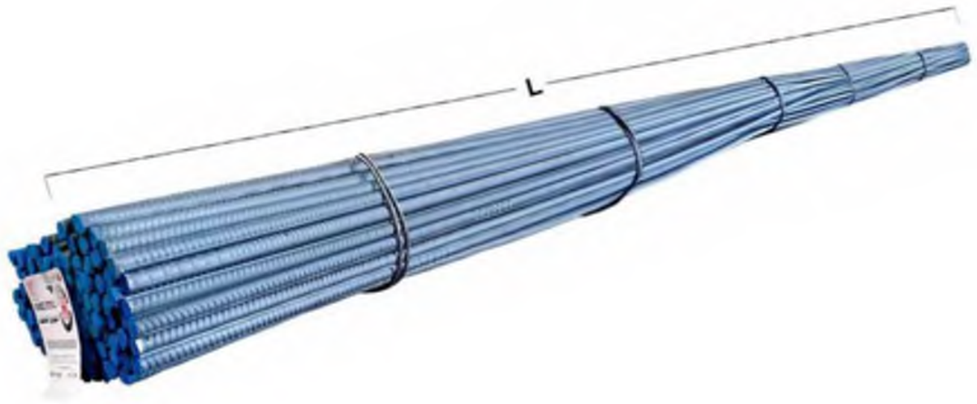
Chemical composition of Billet as per the following table :

Serial	Designation	Billet Chemical Analysis specification							
		C %	Mn %	Si%% Max	P % Max	S % Max	N % Max	CE %	According To :
1	SAE 1006	0.04_0.08	0.25_0.45	0.15	0.040	0.050	0.012		ASTM A1040-21
2	SAE 1008	0.05_0.10	0.30_0.50	0.15	0.040	0.050	0.012		ASTM A1040-21
3	SAE 1010	0.08_0.13	0.30_0.60	0.15	0.040	0.050	0.012		ASTM A1040-21
4	SAE 1012	0.10_0.15	0.30_0.60	0.15	0.040	0.050	0.012		ASTM A1040-21
5	SAE 1015	0.13_0.18	0.30_0.60	0.25	0.040	0.050	0.012		ASTM A1040-21
6	SAE 1018	0.15_0.20	0.60_0.90	0.25	0.040	0.050	0.012		ASTM A1040-21
7	SAE 1020	0.18_0.23	0.60_0.90	0.25	0.040	0.050	0.012		ASTM A1040-21
8	SAE 1022	0.18_0.23	0.70_1.00	0.25	0.040	0.050	0.012		ASTM A1040-21
9	SAE 1023	0.20_0.25	0.30_0.60	0.25	0.040	0.050	0.012		ASTM A1040-21
10	SAE 1025	0.22_0.28	0.30_0.60	0.25	0.040	0.050	0.012		ASTM A1040-21
11	SAE 1030	0.28_0.34	0.60_0.90	0.25	0.040	0.050	0.012		ASTM A1040-21
12	SAE 1037	0.32_0.38	0.70_1.0	0.25	0.040	0.050	0.012		ASTM A1040-21
13	SAE 1045	0.43_0.50	0.60_0.90	0.25	0.040	0.050	0.012		ASTM A1040-21
14	ST 300D-R	-	-	-	0.05	0.05	-		ES 262/2021
15	ST 300DWR	0.27 Max	1.50 Max	0.55 Max	0.04	0.04	0.012	0.49	ES 262/2021
16	ST 350DWR	0.27 Max	1.60 Max	0.55 Max	0.04	0.04	0.012	0.51	ES 262/2021
17	ST 400D-R	0.29 Max	1.60 Max	0.55 Max	0.04	0.04	-	0.55	ES 262/2021
18	ST400DWR	0.29 Max	1.80 Max	0.55 Max	0.04	0.04	0.012	0.56	ES 262/2021
19	ST420DWR	0.30 Max	1.50 Max	0.55 Max	0.04	0.04	0.012	0.56	ES 262/2021
20	ST500D-R	0.32 Max	1.80 Max	0.55 Max	0.04	0.04	0.012	0.60	ES 262/2021
21	ST 500DWR	0.32 Max	1.80 Max	0.55 Max	0.04	0.04	0.012	0.61	ES 262/2021
22	ST600D-R	0.37 Max	1.80 Max	0.55 Max	0.04	0.04	0.012	0.67	ES 262/2021
23	B500C B500CWR	0.22 Max	1.60 Max	0.30 Max	0.050	0.050	0.012	0.50	BS 4449-2005-A3-2016 BS-EN 10080-2005 ES 262/2021
24	ST4SP-SSS	0.18_0.23	0.60_0.70	0.25	0.040	0.050	0.300	0.300	SSC Standard (common steel grade, as per Gost380-2005)
25	ST3 SP	0.14_0.22	0.40_0.65	0.25	0.040	0.050	0.012		Gost380-2005
26	ST4 SP	0.18_0.27	0.60_0.70	0.25	0.040	0.050	0.012		Gost380-2005
27	ST5 SP	0.28_0.37	0.60_0.80	0.25	0.040	0.050	0.012		Gost380-2005
28	ST6 SP	0.38_0.49	0.60_0.80	0.25	0.040	0.050	0.012		Gost380-2005

Note:-

SSC is able to produce any national, international, and any steel grade specification according to customer requirements.

Rebar in Bundles



General Packing of Rebar in Bundles		
Weight	Length (L)	Tying
2000 Kg	6 ~ 24 meter	4 ~ 12 equal distance double ties of 6 mm according to bundle length

Sizes	R8	R10	R12	R14	R16	R18	R20	R22	R25	R28	R32	R36	R40
No. of bars in bundle (1)	422	270	188	138	105	83	67	56	43	34	26	21	17

(1) Number of bars per bundle are based on theoretical unit weight per 2 tons bundle

Features	Designation
W	Weldable
HS	High Stress
HD	High Ductility
EQR	Earthquake Resistance
NUC	Suitable for nuclear facilities

Other standards and packing options are available upon request.

Common Produced Quality Standards			
Standard	Origin	Grade	Features
ES 262-2 : 2021 and / or ISO 6935-2:2019	Egypt / Europe	B400BWR	W
		B420DWR	W + HD + EQR
		B500BWR	W + HS
		B500CWR	W + HS + HD
		B500DWR	W + HS + HD + EQR
		B600D-R	HS + HD
		B700D-R	HS + HD
BS 4449 :2005	British	B500A	W + HS
		B500B	W + HS
		B500C	W + HS + HD
ASTM A615	USA	Grade 40	
		Grade 60	HS + NUC
		Grade 80	HS
ASTM A706	USA	Grade 60	HS + HD + EQR + NUC
		Grade 80	HS + HD + EQR
DSTU 3760 :2006	Ukraine	A400C	HD
		A500C	HS + HD
DIN 488 : 2009	Germany	B500B	HS
SASO ASTM A615	KSA	Grade 60	HS + NUC
		Grade 80	HS
NL 50 : 1999	Lebanon	LRB 400	W
		LRB 500	HS
NF A 35-080-1	France	B500B	W + HS
		B500C	W + HS + HD
ST 009:2011	Romania	B500 C	HS
JIS G 3112 :2010	Japan	SD295B	W
		SD490	W + HS
UNI 6407	Italy	FEB 44K	W
ABNT NBR 7480:2007	Brazil	CA-50	W
PN-H-93220:2018-02	Poland	B500SP	W
NS 3576-3:2012 and / or NS EN 10080:2005	Norway / Europe	B500NC	W
SS EN 212540:2014 and / or NS EN 10080:2005	Sweden / Europe	K500B-T	W
		K500C-T	W
SFS 1300:2020	Finland	B500B	W
		B500C	W
LST EN10080:2005	Lithuania	B500B	W
		B500C	W
GOST 34028-2016	Russia	A240	W
		A500	W
		A500CHУ	W
		A500CEУ	W

Spooled Rebar

Benefits for using spooled rebars over regular rebar in coils includes:

1. No twisting over straightened length
2. Homogeneous winding provides smooth unwinding and straightening process
3. Higher sizes up to R25
4. Higher mechanical grades for ALL sizes (like grade 500B of the British standard BS4449:2005 and Gr60 of the American standard ASTM A615)
5. Relatively fixed inner diameter of about 850 mm and fixed spool height of about 800 mm.
6. Lower losses during handling and storage as the spools are more secured than coils due to no spring lose effect.
7. Lower storage volume to ton ratio.

General Packing of spooled rebars			
Spool Weight	Inner Diameter (ID)	Outer Diameter (OD)	Height (H)
1.5 Ton approx	850 mm	1050 mm ~ 1150 mm	800 mm
2.0 Ton approx		1200 mm ~ 1250 mm	

Tying	4 Steel Straps of 30mm width	(standard)

Sizes	R8	R10	R12	R14	R16	R18	R20	R22	R25
Length for 1.5 Ton	3800 m	2432 m	1689 m	1241 m	950 m	751 m	608 m	502 m	389 m
Length for 2.0 Ton	5066 m	3242 m	2252 m	1654 m	1267 m	1001 m	811 m	670 m	519 m

Features	Designation
W	Weldable
HS	High Stress
HD	High Ductility
EQR	Earthquake Resistance
NUC	Suitable for nuclear facilities

Other standards and packing options are available upon request.

Common Produced Quality Standards			
Standard	Origin	Grade	Features
ES 262-2 : 2021 and / or ISO 6935-2:2019	Egypt / Europe	B400BWR	W
		B420DWR	W + HD + EQR
		B500BWR	W + HS
		B500CWR	W + HS + HD
		B500DWR	W + HS + HD + EQR
BS 4449 :2005	British	B500A	W + HS
		B500B	W + HS
BS4482:2005	British	500	W + HS
ASTM A615	USA	Grade 40	
		Grade 60	HS + NUC
ASTM A706	USA	Grade 60	HS + HD + EQR + NUC
DSTU 3760 :2006	Ukraine	A400C	HD
		A500C	HS + HD
DIN 488 : 2009	Germany	B500B	HS
SASO ASTM A615	KSA	Grade 60	HS + NUC
		Grade 80	HS
NL 50 : 1999	Lebanon	LRB 400	W
		LRB 500	HS
NF A 35-080-1	France	B500B	W + HS
		B500C	W + HS + HD
ST 009:2011	Romania	B500 C	HS
JIS G 3112 :2010	Japan	SD295B	W
		SD490	W + HS
UNI 6407	Italy	FEB 44K	W
ABNT NBR 7480:2007	Brazil	CA-50	W
PN-H-93220:2018-02	Poland	B500SP	W
NS 3576-3:2012 and / or NS EN 10080:2005	Norway / Europe	B500NC	W
SS EN 212540:2014 and / or NS EN 10080:2005	Sweden / Europe	K500B-T	W
		K500C-T	W
SFS 1300:2020	Finland	B500B	W
		B500C	W
LST EN10080:2005	Lithuania	B500B	W
		B500C	W
GOST 34028-2016	Russia	A240	W
		A500	W
		A500CHУ	W
		A500CEУ	W

Wire Rods Coils

Sizes & Dimensional tolerances	
Sizes	P5.5 ~ P16
Max/Min Diameter	+/- 0.4 mm
Out of roundness	0.6 mm max

General Packing in Coils			
Coil Weight	Inner Diameter (ID)	Outer Diameter OD	Length (L)
1.5 Ton approx	850 mm ~ 950 mm	1050 mm ~ 1200 mm	1100 mm ~ 1400 mm
2.0 Ton approx			1500 mm ~ 1750 mm
Tying	4 equal distance tying wires of 7mm		(standard)

Other standards and packing options are available upon request.

Common Produced Quality Standards		
Standard	Origin	Grade
ES 262 : 2000	Egypt	240
		280
ES 262-1 : 2015 and / or ISO 6935-1:2007	"Egypt / Europe"	B240C-P
		B240D-P
		B300B-P
		B300C-P
		B300D-P
ASTM A510 (AISI / SAE)	USA	1006
		1008
		1010
		1012
		1015
		1018
		1020
		1022
		1025
BS4482:2005	British	250
GOST 380 :2005	Ukraine	3PS
		3SP
		4PS
		4SP
DIN 17100	Germany	ST37.2
ASTM A 615 M	USA	Grade 40
DSTU 3760 : 2006	Ukraine	A 240 C
SASO 02 :1992	KSA	Normal Strength
NF A 35-016	France	FeE500-2
JIS G 3112 :2010	Japan	SR235
		SR295
EN 10263-4	Europe	20MnB4
		27MnB4

Rebar in Coils

General Packing in Coils			
Coil Weight	Inner Diameter (ID)	Outer Diameter (OD)	Length (L)
1.5 Ton approx	850 mm ~ 950 mm	1050 mm ~ 1200 mm	1100 mm ~ 1400 mm
2.0 Ton approx			1500 mm ~ 1750 mm

Tying	4 equal distance tying wires of 7mm	(standard)

Sizes	R8	R10	R12	R14	R16
Length for 1.5 Ton	3800 m	2432 m	1689 m	1241 m	950 m
Length for 2.0 Ton	5066 m	3242 m	2252 m	1654 m	1267 m

Features	Designation
W	Weldable
HS	High Stress
HD	High Ductility
EQR	Earthquake Resistance
NUC	Suitable for nuclear facilities

Other standards and packing options are available upon request.

Common Produced Quality Standards			
Standard	Origin	Grade	Features
ES 262-2 : 2021 and / or ISO 6935-2:2019	Egypt / Europe	B400BWR	W
		B420DWR	W + HD + EQR
		B500BWR	W + HS
		B500CWR	W + HS + HD
		B500DWR	W + HS + HD + EQR
BS 4449 :2005	British	B500A	W + HS
		B500B	W + HS
BS4482:2005	British	500	W + HS
ASTM A615	USA	Grade 40	
		Grade 60	HS + NUC
ASTM A706	USA	Grade 60	HS + HD + EQR + NUC
DSTU 3760 :2006	Ukraine	A400C	HD
		A500C	HS + HD
DIN 488 : 2009	Germany	B500B	HS
SASO ASTM A615	KSA	Grade 60	HS + NUC
		Grade 80	HS
NL 50 : 1999	Lebanon	LRB 400	W
		LRB 500	HS
NF A 35-080-1	France	B500B	W + HS
		B500C	W + HS + HD
ST 009:2011	Romania	B500 C	HS
JIS G 3112 :2010	Japan	SD295B	W
		SD490	W + HS
UNI 6407	Italy	FEB 44K	W
ABNT NBR 7480:2007	Brazil	CA-50	W
PN-H-93220:2018-02	Poland	B500SP	W
NS 3576-3:2012 and / or NS EN 10080:2005	Norway / Europe	B500NC	W
SS EN 212540:2014 and / or NS EN 10080:2005	Sweden / Europe	K500B-T	W
		K500C-T	W
SFS 1300:2020	Finland	B500B	W
		B500C	W
LST EN10080:2005	Lithuania	B500B	W
		B500C	W
GOST 34028-2016	Russia	A240	W
		A500	W
		A500CHУ	W
		A500CEУ	W

By-Products | المنتجات الثانوية

Oxide Fines	
Fe Total	64.0 % min
CaO	1.0 % max
MgO	0.1 % max
SiO_2	3.0 % max

Mix Lime Fines	
CaO	64.0 % min
MgO	1.0 % max
SiO_2	0.1 % max
L.OI	3.0 % max
Fe_2O_3	
P_2O_2	

Sample Contents	LIME	DOLOLIME
CaO	90% min	55%min
MgO	4% max	30%min
SiO2	2% max	2.5%min
Al2O3	0.5% max	0.5% max
SO3	0.1% max	0.1% max
P2O5	0.1%max	0.1%max
RCO2	5% max	ASTM - BS - DIN - SAE

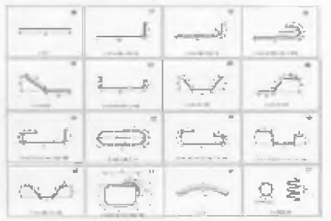
LIME size	DOLOLIME size
0 - 5 mm	5 -50 mm
5 - 15 mm	
15 - 50 mm	

DUST	
CaO	3-8
SiO2	1-3
Fe2O3	35-45
Al2O3	0.1-0.3
MgO	1-3
MnO	3-6
ZnO	8-15
PbO	0.5-2.5

Scales	
Fe2O2	96.0% min
MgO	0.05% max
SiO2	0.5% max
Al2O3	0.15% max
P2O2	0.040% max
S	0.05% max

Slag	
CaO	30~40%
SiO2	15~18%
FeO	20~35%
Al2O3	5~10%
MgO	8~12%
MnO	4~9%
P2O5	1.0~1.5%
S	0.1~0.3%

Cut & Bend | القطع والثنى



Cut to length

Bending Shapes

Technical Specifications

SIZE	FROM 6 TO 25 MM(6 ,8 ,10 ,12 ,16 ,18 ,20 ,22 ,25)
STANDARDS	ASTM / BS / DIN / SAE
SHAPES	STIRRUPS / SHAPED / CUT TO LENGTH

Final Products (most common) | المنتجات النهائية الاكثر شيوعاً

Standard	Origin	Grades	Sizes & Packing			Mechanical Properties					Chemical Properties										
			Plain Wire Rod	Deformed Bar (Rebars)	Deformed Bar (Rebars)	Yield Strength R_{eH} N/mm²	Tensile Strength R_m N/mm²	Stress Ratio R_m/R_{eH}	Elongation (min %)		C %	Si %	Mn %	P %	S %	Cu %	N %	As %	Cr %	N %	CEV
			In Coils 1.5 ton / 2.0 ton	In Bundle 6 m : 14 m	In Coils (max size 16) In Spools (max size 25) 1.5 ton / 2.0 ton				As After fracture	Agt @ max force											
ES 262 : 2000	Egypt	240	5.5 —> 16	-	8	240	350	1.1	20 @ 100	-	0.30	-	-	0.055	0.055	-	-	-	-	-	-
		280				280	450	1.1	18 @ 100	-											
		360	-	8 —> 40	10 —> 25	360	520	1.05	12 @ 100	-	0.45	-	-	0.055	0.055	-	-	-	-	0.012	-
		400				400	600	1.05	10 @ 100	-											
ES 262-2 : 2021 and / or ISO 6935-2:2021	Egypt / Europe	B300B-R	5.5 —> 16	-	8	300	-	1.08	16	5	-	-	-	0.050	0.050	-	-	-	-	-	-
		B300C-R				300	-	1.25	16	7											
		B400B-R	-	8 —> 40	10 —> 25	400	-	1.08	14	5											
		B500B-R				500	-	1.08	14	5											
		B400BWR				400	-	1.08	14	5											
		B500BWR				500	-	1.08	14	5	0.24	0.60	1.60	0.050	0.050	-	-	-	-	0.012	0.50
		B500CWR				500	-	1.25	14	7											
		B500DWR				500-650	-	1.25	13	8	0.32	0.60	1.88	0.045	0.045	-	-	-	-	0.012	0.66
		B600D-R				600-720	-	1.25	10	8	0.37	0.60	1.88	0.048	0.048	-	-	-	-	-	0.72
		B700D-R				700-840	-	1.25	10	8	0.53	2.00	2.08	0.048	0.048	-	-	-	-	-	0.85
DIN 17100 / EN10025	Germ / Eur	ST37.2	5.5 —> 16	-	8	240	370	1.15	20	7	0.21	0.30	1.50	0.050	0.050	-	-	-	-	0.012	0.35
BS 4449 :1997	British	460A	-	8 —> 40	8 —> 25	460	-	1.08	14	5	0.25	-	-	0.050	0.050	0.80	0.0008	-	-	0.012	0.53
		460B																			
BS 4449 :2005	British	B500B	-	8 —> 40	8 —> 25	500	-	1.08	-	5	0.24	-	-	0.055	0.055	0.80	0.0008	-	-	0.014	0.52
		B500C				500	-	1.15	-	7											
BS 4482:2005	British	Grade 250	5.5 —> 16	-	-	500	-	1.15	-	5	0.24	-	-	0.055	0.055	0.80	0.0008	-	-	0.012	0.44
ASTM A 615 M	USA	Grade 40	5.5 —> 16	-	8	280	420	-	12 @ 8in	-	-	-	-	0.055	0.055	-	-	-	-	-	-
		Grade 60	-	8 —> 40	8 —> 25	420	620	-	9 @ 8in	-											
		Grade 80				550	690	-	9 @ 8in	-											
ASTM A 706 M	USA	Grade 60	-	8 —> 40	8 —> 25	420	620	1.25	9 @ 8in	-	0.30	0.50	1.50	0.035	0.045	-	-	-	-	-	0.55
		Grade 80				550	690	1.25	9 @ 8in	-											
DSTU 3760 :2006	Ukraine	A 240 C	5.5 —> 16	-	8	240	370	-	25	-	0.22	-	-	0.045	0.045	-	-	-	-	0.012	0.52
		A 400 C	-	8 —> 40	8 —> 25	400	500	-	16	9	0.25	-	-	0.045	0.050	-	-	-	-	0.012	0.52
		A 500 C				500	600	-	14	9											
DIN 488 : 2009	Germany	B500B	-	8 —> 40	8 —> 25	500	-	1.08	15	-	0.25	-	-	0.050	0.050	-	-	-	-	0.012	0.50
SASO ASTM A615	KSA	Grade 60	-	8 —> 40	8 —> 25	420	620	-	9 @ 8in	-	0.30	0.50	1.50	0.035	0.045	-	-	-	-	-	0.55
		Grade 80				550	690	-	9 @ 8in	-											
NL 50 : 1999	Lebanon	LR8 400	---	8 —> 40	8 —> 25	395	480	1.22	14	-	0.22	-	-	0.055	0.055	-	-	-	-	-	0.50
		LR8 500	---	8 —> 40	8 —> 25	500	550	1.1	12	-	0.24	-	-	0.055	0.055	-	-	-	-	-	0.50
NF A 35-080-1	French	B500B	-	8 —> 40	8 —> 25	500	-	1.08	-	5	0.24	-	-	0.055	0.055	0.80	0.0008	-	-	0.014	0.52
		B500C				500	-	1.15	-	7											
UNI 6407	Italy	FEB 44K	-	8 —> 40	8 —> 25	430	-	-	14	5	0.22	-	-	0.050	0.050	-	-	-	-	0.012	0.50
JIS G 3112 :2010	Japan	SR235	5.5 —> 16	-	-	235	380-520	-	22	-	-	-	-	0.050	0.050	-	-	-	-	-	-
		SR295				295	440-600	-	19	-											
		SD295A	-	8 —> 40	8 —> 25	295	440-600	-	17	-											
		SD295B				295-390	440	-	17	-	0.27	0.55	1.5	0.040	0.040	-	-	-	-	-	-
		SD345				345-440	490	-	19	-			1.6							-	0.50
		SD390				390-510	560	-	17	-	0.29	0.55	1.8	0.040	0.040	-	-	-	-	-	0.55
		SD490				490-625	620	-	13	-	0.32										0.60
ES 262-1 : 2015 and / or ISO 6935-1:2007	Egypt / Europe	B240C-P	5.5 —> 16	-	-	240	-	1.15	16	5	-	-	-	0.060	0.060	-	-	-	-	-	-
		B300B-P				300	-	1.08	16	5											
		B300C-P				300	-	1.15	16	7											
		B300D-P				300	600 max	1.25	19	8											
ASTM A510 (AISI / SAE)	USA	1006	5.5 —> 16	-	-	-	-	-	-	-	0.08	-	0.25-0.40	0.040	0.050	-	-	-	-	-	-
		1008				-	-	-	-	-	0.10	-	0.30-0.50	0.040	0.050	-	-	-	-	-	-
		1010				-	-	-	-	-	0.08 - 0.13	-	0.30-0.60	0.040	0.050	-	-	-	-	-	-
		1012				-	-	-	-	-	0.10 - 0.15	-	0.30-0.60	0.040	0.050	-	-	-	-	-	-
		1015				-	-	-	-	-	0.13-0.18	-	0.30-0.60	0.040	0.050	-	-	-	-	-	-
		1018				-	-	-	-	-	0.15-0.20	-	0.60-0.90	0.040	0.050	-	-	-	-	-	-
		1020				-	-	-	-	-	0.18-0.23	-	0.30-0.60	0.040	0.050	-	-	-	-	-	-
		1022				-	-	-	-	-	0.18-0.23	-	0.70-1.00	0.040	0.050	-	-	-	-	-	-
		1025				-	-	-	-	-	0.22-0.28	-	0.30-0.60	0.040	0.050	-	-	-	-	-	-
GOST 380 :2005	Ukraine	3PS	5.5 —> 16	-	-	-	-	-	-	-	0.14 - 0.22	0.05 - 0.15	0.40 - 0.65	-	-	-	-	-	-	-	-
		3SP				-	-	-	-	-	0.14 - 0.22	0.15 - 0.30	0.40 - 0.65	-	-	-	-	-	-	-	-
		4PS				-	-	-	-	-	0.18 - 0.27	0.05 - 0.15	0.40 - 0.70	-	-	-	-	-	-	-	-
		4SP				-	-	-	-	-	0.18 - 0.27	0.15 - 0.30	0.40 - 0.70	-	-	-	-	-	-	-	-

a - R_{eH}/R_m characteristic is 1.02 for sizes below 8mm.
b - A_5 characteristic is 1.0 % for sizes below 8mm.
* All CEV <= 0.50 are weldable

Final Products (most common) | المنتجات النهائية الاكثر شيوعاً

Standard	Origin	Grades	Sizes & Packing			Mechanical Properties					Chemical Properties										
			Plain Wire Rod	Deformed Bar (Rebars)	Deformed Bar (Rebars)	Yield Strength R_{eh} N/mm^2	Tensile Strength R_m N/mm^2	Stress Ratio R_m/R_{eh}		Elongation (min %)											
			In Coils 1.5 ton / 2.0 ton	In Bundle 6 m : 24 m	In Coils (max dia 16) In Spools (max dia 25) 1.5 ton / 2.0 ton					As After fracture	Agt @ max force	C %	Si %	Mn %	P %	S %	Cu %	B %	As %	Cr %	N %	CEV
ST 009:2011	Romania	B500 C	-	8 —> 40	8 —> 16	500	-	1.15 - 1.35		16	7.5	0.22	-	-	0.050	0.050	0.80	-	-	-	0.012	0.50
ABNT NBR 7480:2007	Brazil	CA-50	-	8 —> 40	8 —> 16	500	540	1.08		8	5	0.24	1.45	0.30	0.050	0.050	0.80	-	-	-	0.012	0.50
PN-H-93220:2018-02	Poland	B500SP	-	10 —> 25	8 —> 16	500 - 625	-	1.15 - 1.35		16	8	0.22	1.60	0.055	0.050	0.050	0.80	0.0008	-	-	0.012	0.50
NS 3576-3:2012 and / or NS EN 10080:2005	Norway / Europe	B500NC	-	8 —> 40	8 —> 16	500 - 650	600	1.15 - 1.35		-	10 —> 14 _ 7.5 16 —> 40 _ 8	0.25	1.60	0.60	0.050	0.050	0.60	0.0008	-	-	0.012	0.48
SS EN 212540:2014 and / or NS EN 10080:2005	Sweden / Europe	K500B-T	-	8 —> 40	8 —> 16	500	-	1.08		-	5	0.25	1.60	0.60	0.050	0.050	0.60	0.0008	-	-	0.012	0.48
		K500C-T						1.15 - 1.35			7.5											
SFS 1300:2020	Finland	B500B	-	8 —> 40	8 —> 16	500	-	1.08		-	5	0.25	1.60	0.60	0.050	0.050	0.60	0.0008	-	-	0.012	0.48
		B500C						1.15 - 1.35			7.5											
LST EN 10080:2005	Lithuania	B500B	-	8 —> 40	8 —> 16	500 - 650	-	1.08		-	5	0.25	1.60	0.60	0.050	0.050	0.60	0.0008	-	-	0.012	0.48
		B500C						1.15 - 1.35			7.5											
GOST 34028:2016	Russia	A240	-	8 —> 40	-	240	380	-		25	-	0.25	0.70	0.03 - 0.33	0.055	0.055	0.30	-	0.08	-	0.013	-
		A500				500	600	1.05		14	2.5	0.24	1.20	0.95	0.055	0.055	0.35	-	-	-	0.013	0.52
		A500CHY						1.08		16	5											
		A500CEY						1.15 - 1.35			7											
EN 10263-4	Europe	20MnB4	5.5 —> 16	-	-	-	580	-		30	-	0.19 - 0.23	0.90 - 1.20	0.30	0.025	0.025	0.25	0.0008 - 0.005	-	0.30	0.012	-
		27MnB4				-	-	-		30	-	0.25 - 0.30	0.90 - 1.20	0.15 - 0.30	0.025	0.025	0.25	0.0008 - 0.005	-	0.30	0.012	-

a - R_m/R_{eh} characteristic is 1.02 for sizes below 8mm.
b - A_{gt} characteristic is 1.0 % for sizes below 8mm.
* All CEV <= 0.50 are weldable

شركة السويس للصلب
SUEZ STEEL CO.

Safety Data Sheet

Section 1 - Product Identification and Uses

Common/Trade Name	Hot Rolled Steel Bar / Hot Rolled Plain Coils (HRC)
Synonyms	Carbon steel, HRC,
Chemical Name	Not applicable.
Chemical Formula	Not applicable.
Supplier	**Full Name:** SUEZ STEEL COMPANY S.A.E SUEZ **Address:** Egypt Al Adabiya Road **Postal Code:** Box 35 Suez. Egypt **Tel:** (+2) 062 323 0821 **Fax:** (+2) 062 323 0807 - (+2) 062 323 0802 **Website:** http://www.solbmisr.com
Material Uses	Steel for concrete reinforcing + Steel for downstream industries

Section 2- Hazards Identification

Emergency Overview: **STEEL PRODUCTS AS SOLD BY SSC ARE NOT HAZARDOUS AS PER OSHA 29 CFR 1910, 1926.**

However, individual customer processes, (such as welding, sawing, brazing, grinding, abrasive blasting, and machining) may result in the formation of fumes, dust (combustible or otherwise), and/or particulate that may present the following hazards**:**

Hazardous Statement Steel product is not exposing any hazards; however, any processes are applied such as melting / recycled inside furnaces, welding and grinding may result in the formation of fumes and/or dust that may present some hazards as follows:

H317: Dust/fumes may cause an allergic skin reaction.
H372: Inhalation of dust/fumes causes damage to respiratory tract through prolonged or repeated exposure.
H317 - May cause an allergic skin reaction.

Precautionary statements

P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust, fume.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P302+P352 - If on skin: Wash with plenty of water.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Other hazards which do not result in classification

Exposure to massive forms of steel presents no health hazards. Grinding, thermal cutting, or melting may produce dust or fumes. Dust or fumes may contain elemental constituents. Exposure to elemental constituents presents the hazards described in this sheet.

Section 3 - Composition and Information on Ingredients

Name	CAS#	% by Weight	Exposure Limits OSHA PEL (mg/m3)
Carbon (C)	7440-44-0	0.02-0.35	Not listed
Manganese (Mn)	7439-96-5	≤ 2.00	5 as manganese
Silicon (Si)	7440-21-3	≤ 1.50	15 as Dust
Phosphorus (P)	7440-50-8	≤ 0.08	0.1 as Phosphorus
Chromium (Cr)	7440-47-3	≤ 0.50	1.0 as chrome
Aluminum (Al)	7429-90-5	≤ 0.20	15 as Dust
Boron (B)	7440-42-8	≤ 0.001	10 as dust
Iron (Fe)	7439-89-6	96.0-99.5	10 iron fumes

NOTE: Various grades of steel will contain different combinations of these elements and/or trace/other materials. Exact specifications for specific products may be available upon request.

Section 4 - First Aid Measures

Eye Contact	In case of overexposure to dusts or fumes, immediately flush eyes with plenty of water for at least 15 minutes occasionally lifting the eye lids. Get medical attention if irritation persists. Thermal burns should be treated as medical emergencies.
Skin Contact	In case of overexposure to dusts or particulates, wash with soap and plenty of water. Get medical attention if irritation develops or persists. If thermal burn occurs, flush area with cold water and get immediate medical attention.
Inhalation	In case of overexposure to dusts or fumes, remove to fresh air. Get immediate medical attention if symptoms described in this SDS develop.
Ingestion	Not considered an ingestion hazard. However, if excessive amounts of dust or particulates are swallowed, treat symptomatically and supportively. Get medical attention.
Notes to Physician	Inhalation of metal fume or metal oxides may produce an acute febrile state, with cough, chills, weakness, and general malaise, nausea, vomiting, muscle cramps, and remarkable leukocytosis. Treatment is symptomatic, and condition is self-limited in 24-48 hours. Chronic exposure to dusts may result in pneumoconiosis of mixed type.

Section 5 – Fire Fighting Measures

The product is	Does not burn and will not support combustion.
Auto-ignition temperature	Not applicable.
Fire degradation products	This product is stable under normal condition.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Fire Extinguishing procedures	Not applicable.
Flammability	Does not burn and will not support combustion.
Risks of explosion	Not applicable.

Section 6 - Accidental Release Measures

Fire and Explosion Hazards	Steel is stable under normal condition and explosion is unlikely unless molten steel is exposed to water. Some customer processes may generate combustible dust that may require specific precautions when cleaning spills or releases of dust.
Precautions if Material is Spilled or Released	Emergency response is unlikely unless in the form of combustible dust. Avoid inhalation, eye, or skin contact of dusts by using appropriate precautions outlined in this SDS (see section 8). Fine turnings and small chips should be swept or vacuumed and placed into appropriate disposable containers. Keep fine dust or powder away from sources of ignition. Scrap should be reclaimed for recycling. Prevent materials from entering drains, sewers, or waterways. Specific standards and regulations may be applicable to materials generated by individual customer processes. As appropriate, these standards and regulations should be consulted for applicability.
Environmental precaution	Some grades of steel may contain reportable quantities of alloying elements. See Section 15 for additional information.
Waste Disposal Methods	Dispose of used or unused product in accordance with applicable Local regulations.

Section 7 - Handling and storage

Storage temperature	Stable under normal temperatures and pressures.
Precautions to be Taken in Handling and Storing	Store away from strong oxidizers. Dusts and/or powders, alone, or combined with process specific fluids, may form explosive mixtures with air. Applicable Federal, state and local laws and regulations may require testing dust generated from processing of steel. products to determine if it represents a fire or explosion hazard and to determine appropriate protection methods. Avoid breathing dusts or fumes.

Section 8 – Protective Measures

Operations with potential for generating high concentrations of airborne particulates or fumes should be evaluated and controlled as necessary**.**

Eye Protection - Use safety glasses. Dust resistant safety goggles are recommended under circumstances where particles could cause mechanical injury such as grinding or cutting. Face shield should be used when welding or cutting.

Skin - Appropriate protective gloves should be worn as necessary. Good personal hygiene practices should be followed including cleansing exposed skin several times daily with soap and water, and laundering or dry-cleaning soiled work clothing.

Respiratory Protection - NIOSH/MSHA approved dust/fume/mist respirator should be used to avoid excessive exposure. See Section 3 for component material information exposure limits. If such concentrations are sufficiently high that this respirator is inadequate, or high enough to cause oxygen deficiency, use a positive pressure self-contained breathing apparatus (SCBA). Follow all applicable

respirator use, fitting, and training standards and regulations.

Ventilation - Provide general and/or local exhaust ventilation to control airborne levels of dust or fumes below exposure limits.

Exposure Guidelines - No permissible exposure limits (PEL) or threshold limit values (TLV) exist for steel. See Section 3 for component materials. Various grades of steel will contain different combinations of these elements. Trace elements may also be present in minute amounts.

Section 9 - Physical Data

Physical State and Appearance	**Silver grey to grey black with metallic luster** Solid: Coil (Nominal diameter 5.5 - 14 mm). Solid: Rebar (Nominal diameter 8 - 40 mm).
PH	Not applicable
Odor Threshold	Not available.
Volatility	Not available.
Melting Point	~1537 ºC.
Boiling Point	Not applicable
Specific Gravity	~7.854 MT/m^3.
Vapor Density (air = 1)	Not applicable.
Explosive properties	Non explosive.

Section 10 – Reactivity and Stability

Stability	The product is stable under general conditions.
Condition to avoid	Steel at temperatures above the melting point may liberate fumes containing oxides of iron and alloying elements. Avoid generation of airborne fume.
Degradability	Not available.
Products of Degradation	Not available.
Corrosively	Don't store near strong oxidizers or acids.
Reactivity	Not available.
Hazardous Polymerization	Will not occur
Incompatibility (Materials to Avoid)	Reacts with strong acids to form hydrogen gas. Do not store near strong oxidizers
Hazardous Decomposition Products	Metallic fumes may be produced during welding, burning, grinding, and possibly machining or any situation with the potential for thermal decomposition. Refer to ANSI Z49.

Section 11 - Toxicological Properties

The primary component of this product is iron. Long-term exposure to iron dusts or fumes can result in a condition called siderosis which is considered to be a benign pneumoconiosis. Symptoms may include chronic bronchitis, emphysema, and shortness of breath upon exertion. Penetration of iron particles in the skin or eye may cause an exogenous or ocular siderosis which may be characterized by a red-brown pigmentation of the affected area. Ingestion overexposures to iron may affect the gastrointestinal, nervous, and hematopoietic system and the liver. Iron and steel founding, but not iron or iron oxide, has been listed as carcinogenic (Group 1) by IARC.

When this product is welded, fumes are generated. Welding fumes may be different in composition from the original welding product, with the chief component being ordinary oxides of the metal being welded. Chronic health effects (including cancer) have been associated with the fumes and dusts of individual component metals (see above), and welding fumes as a general category have been listed by IARC as a carcinogen (Group 2B). There is also limited evidence that welding fumes may cause adverse reproductive and fetal effects. Evidence is stronger where welding materials contain known reproductive toxins, e.g., lead, which may be present in the coating material of this product.

Breathing fumes or dusts of this product may result in metal fume fever, which is an illness produced by inhaling metal oxides. These oxides are produced by heating various metals including cadmium, zinc, magnesium, copper, antimony, nickel, cobalt, manganese, tin, lead, beryllium, silver, chromium, aluminum, selenium, iron, and arsenic. The most common agents involved are zinc and copper.

This product may contain small amounts of manganese. Prolonged exposure to manganese dusts or fumes is associated with "manganism", a Parkinson-like syndrome characterized by a variety of neurological symptoms including muscle spasms, gait disturbances, tremors, and psychoses.

This product may contain small amounts of cadmium. Primary target organs for cadmium overexposure are the lung and the kidney. Because of its cumulative nature, chronic cadmium poisoning can cause serious disease which takes many years to develop and may continue to progress despite cessation of exposure. Progression of the disease may not reflect current exposure conditions. It is also capable of causing a painful osteomalacia called "Itai-Itai" in postmenopausal women, and has caused developmental effects and/or reproductive effects in male and female animals. Cadmium is a listed carcinogen by NTP, OSHA, and IARC (Group 1).

This product may contain small amounts of chromium. Prolonged and repeated overexposure to chromium dusts or fumes may cause skin ulcers, nasal irritation and ulceration, kidney damage and cancer of the respiratory system. Chromium is skin sensitizer. Cancer is generally attributed to the hexavalent (+6) form of chromium which is listed as a carcinogen by NTP and IARC (Group 1).

This product may contain small amounts of nickel. Prolonged and repeated contact with nickel may cause sensitization dermatitis. Inhalation of nickel compounds has caused lung damage as well as sinus, nasal and lung cancer in laboratory animals. Nickel is a listed carcinogen by NTP and IARC (Group 1). This product may contain small amounts of vanadium. Adverse effects from dermal, inhalation or parenteral exposure to various vanadium compounds have been reported. The major target for vanadium pentoxide toxicity is the respiratory tract. Fumes or dust can cause severe eye and respiratory irritation, and systemic effects. Chronic bronchitis, green tongue, conjunctivitis, pharyngitis, rhinitis, rales, chronic productive cough, and tightness of the chest have been reported following overexposure. Allergic reactions resulting from skin and inhalation exposures have also been reported. A statistical association between vanadium air levels and lung cancer has been suggested, but vanadium currently is not regarded as a human carcinogen.

This product may contain small amounts of lead. Lead can accumulate in the body. Consequently, exposure to fumes or dust may produce signs of polyneuritis, diminished vision and peripheral neuropathy, such as tingling and loss of feeling in fingers, arms and legs. Lead is a known reproductive and developmental toxin. It is also associated with central nervous system disorders, anemia, kidney dysfunction and neurobehavioral abnormalities. The brain is a major target organ for lead exposure. Elemental lead is listed as an IARC 2B carcinogen.

The product may contain small amounts of copper. Copper dust and fumes can irritate the eyes, nose and throat causing coughing, wheezing, nosebleeds, ulcers and metal fume fever. Other effects from repeated inhalation of copper fumes include a metallic or sweet taste, and discoloration of skin, teeth or hair. Copper also may cause an allergic skin reaction. Overexposure to copper can affect the liver.

Section 12 - Ecological Information

Aquatic Ecotoxicological Data	-	No specific information available on this product.
Environmental Fate Data	-	No specific information available on this product.

Section 13 - Disposal consideration

Disposal	Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts. Dispose in accordance with federal, state, and local health and environmental regulations. Prevent materials from entering drains, sewers, or waterways.

Section 14 - Transport Information

DOT Proper Shipping Name - Not regulated

DOT Hazard Classification - Not regulated

UN/NA Number - Not applicable

DOT Packing Group - Not applicable

Labeling Requirements - Not applicable

Placards - Not applicable

DOT Hazardous Substance - Not applicable

DOT Marine Pollutant - Not applicable

Section 15 - Regulatory Information

Egyptian Labor law	Steel is not classified as hazardous material.
US OSHA Hazards	This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, dusts and fumes from this product may be combustible or hazardous and require protection to comply with applicable Federal, state and local laws and regulations.

Toxic Substances Control Act (TSCA)

Components of this product are listed on the TSCA Inventory.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

Steel is not reportable; however, it contains hazardous substances that may be reportable if released in pieces with diameters less than or equal to 0.004 inches .

Section 16 - Other Information

Other information	This SDS covers **SSC** product as delivered from **SSC** mill, but does not include chemicals that may be applied by subsequent handlers and/or distributors of this product. This could include a variety of materials including oils, paints, galvanization, etc. that are not included in this SDS. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.
Last Revision Date	January, 2024