

WHEN YOU NEED TO BE SURE

SOPEL INC CATALOG PRESENTATION



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202HO 101 DONG HANSHIN VILLAT 258-29 HOWON DONG UIJEONG BU SHI GYEONGGI DO SOUTH KOREA.

WHEN YOU NEED TO BE SURE

INTRODUCTION



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SOPEL INC

INTRODUCTION

SOPEL INC. ESTABLISHED IN 2005 AS A METALLURGICAL SUPPLYING COMPANY FULLFILL THE REQUIREMENT OF RAW MATERIAL, MANUFACTURING, PRODUCTION, IMPORT, EXPORT REQUIREMENT OF CUSTOMERS WORLD WIDE.

LOCATION

SOPEL INC . IS SOUTH KOREAN BASED COMPANY WITH OFFICE OVERSEAS, WORKING BACK GROUND NATIONAL AND INTERNATIONAL, WITH OVERSEAS PARTNERS.

OUR SERVICE SECTOR

SOPEL INC, OFFERING SERVICES FOR FERROUS NON-FERROUS IN VARIOUS SECTORS OF METAL, & MINERALS INDUSTRY. MIS AND MINERAL.





MISSION

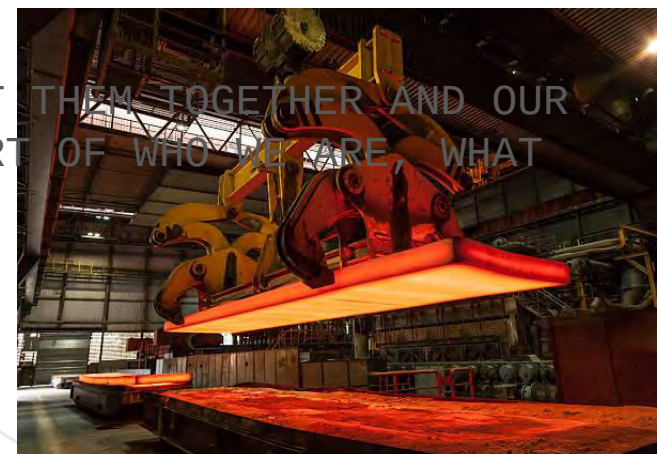
OUR MISSION AND VISION ARE TO BE A SUSTAINABLE SERVICES GROUP AND INDEPENDENT, EMERGING COMPANY, DEALING WITH MINERALS, FERROUS & NO FERROUS.

VISION

OUR VISION IS TO PARTICIPATE CONSISTENTLY IN EXTENDING OUR GENERATION LIMITS AND EXPANDING OUR PARTNER PRODUCTION CAPACITIES WITH A SPECIFIC END GOAL TO MEET THE EPIDEMICALLY DEVELOPING WORLDWIDE DEMAND AND THEREFORE HOLD OUR POSITION AT THE FRONT OF THE STEEL BUSINESS.

VALUES

INDIVIDUALLY, OUR VALUES MAY SEEM OBVIOUS. BUT PUT THEM TOGETHER AND OUR UNIQUE COMPANY CULTURE IS BORN. OUR VALUES ARE PART OF WHO WE ARE, WHAT WE STAND FOR AND HOW WE ACT.



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PRODUCT CATALOG



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PRODUCT LIST



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PRODUCT LIST

- ABRASION RESISTANT OR HIGH YIELD STRENGTH STEEL SHEETS (QUENCHED AND TEMPERED)
- CONSTRUCTION STEEL SHEETS
- DRI SPONGE IRON
- HOT BRIQUETTED IRON (HBI)
- IRON ORE PELLETS
- PIG IRON AND CAST IRON
- STEEL BILLET AND BLOOMS
- STEEL REBARS
- STEEL ROLLED COIL
- STEEL SHEETS FOR OIL AND GAS TRANSMISSION
- STEEL SHEETS OF PRESSURE VESSELS
- STEEL SLABS
- STEEL WIRE ROD COIL
- COAL
- STEAM COAL
- GRANULAR SULFUR
- UREA FERTILIZER 46% NITROGEN
- DOLOMITE ORE
- SILICA SAND
- COPPER CATHODE & PIPES



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PRODUCT IN DETAIL



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WHEN YOU NEED TO BE SURE

IRON ORE PELLET



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IRON ORE PELLETS

No	ELEMENT	RESULT
1	T.FE	65% MIN
2	FE0	1% MAX
3	AL2O3+SI02	5% MAX
4	P	0.01% MAX
5	S	0.01% AVE
6	MOISTURE	1% MAX
7	CCS	270KG/PELLET MIN
8	T INDEX	96% MIN
9	A INDEX	2% MAX
10	POROSITY	20-25%
11	SIZE 6.3 - 16 MM	90% MIN
12	SIZE +16 MM	5% MAX
13	SIZE<6.3 MM	2% MAX



IRON ORE PELLETS



WHEN YOU NEED TO BE SURE

SPONGE IRON DRI



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DRI SPONGE IRON

No	ELEMENT	RESULT
1	FE TOTAL (%)	MIN88<TOTAL< 92 MAX
2	FE METAL (%)	82< METAL< 84
3	MD (%)	MIN 91< MD< 93 MAX
4	C(%)	1.5 MIN
5	SI02 (%)	4 MAX
6	AL203 (%)	0.5 MAX
7	S (%)	0.008 MAX
8	P (%)	0.05 MAX
9	SIZING	9-18 MM, 90%
10		6.3-9 MM, 5%



D.R.I SPONGE IRON

WHEN YOU NEED TO BE SURE

HOT BRIQUETTED IRON (HBI)



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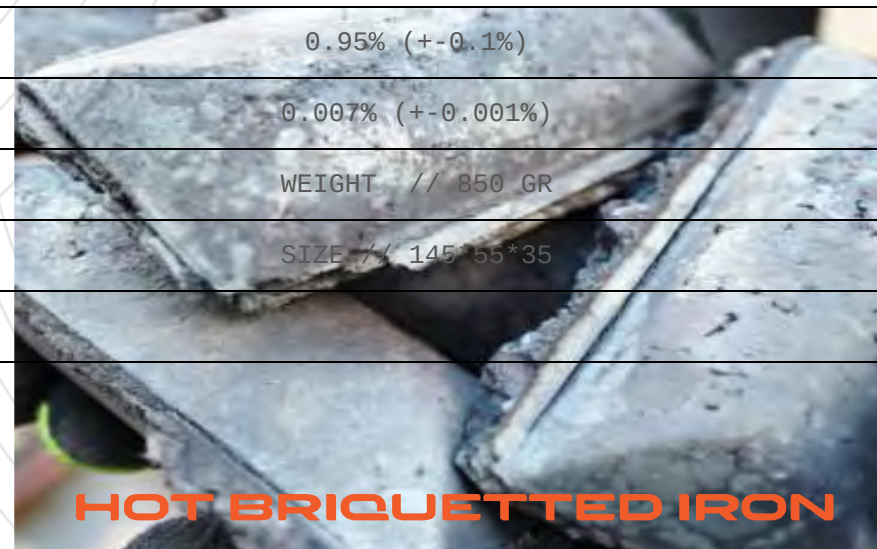


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HOT BRIQUETTED IRON (HBI)

No	ELEMENT	RESULT
1	TOTAL FE	88-89%
2	METALLIC FE	81-82%
3	METALLIZATION	91-92%
4	CARBON	0.95% (+-0.1%)
5	SULPHUR	0.007% (+-0.001%)
6	PHYSICAL SPECIFICATION	WEIGHT // 850 GR
7		SIZE // 145*55*35
8		



HOT BRIQUETTED IRON



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STEEL BILLET AND BLOOMS



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STEEL BILLET AND BLOOMS

NO		
1	STANDARD	• OUR ORDINARY GRADES ARE:
2		• ASTM A615 GR60
3		• ASTM A572GR50
4		• BS 4449 B500B CK 45
5		• RST 37-2
6		• ST 3SP ST 3SP ST 44-2
7		• ST 5SP 2
8		• ISIRI 3132 AJ 400
9		
10		ANALYSIS OF GRADES ARE ACCORDING TO CUSTOMER NEEDS AND NEGOTIABLE. OTHER GRADES ARE NEGOTIABLE.
11		DIMENSION & TOLERANCES
12	LENGTH (MM)	CROSS SECTION (MM)
13	6000-8000-12000 (+/- 100MM)	130×130 (+/-4MM), 150×150(+/-5MM)
14		125×125 (+/-5MM), 100×100(+/-5MM)
15		200*200 (+/-5MM) 260*260(+/-5MM)
		OTHER SIZE AND TOLERANCES ARE NEGOTIABLE

STEEL BILLET & BLOOM

WHEN YOU NEED TO BE SURE

STEEL SLABS



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STEEL SLABS

No	STEEL SLABS		
1	STANDARD		
2		• OUR ORDINARY GRADES ARE:	
3		• G3101 SS 400	
4		• G3106 SM 400A SAE 1008	
5		• ST 37-2	
6		• ST 44-3	
7		• ST 52-3	
8		• GL STRUCTURAL STEEL FOR HULL CONSTRUCTION	
9			
10		ANALYSIS OF GRADES ARE ACCORDING TO CUSTOMER NEEDS AND NEGOTIABLE. OTHER GRADES ARE NEGOTIABLE.	
11	DIMENSION & TOLERANCES		
12	LENGTH (MM)	WIDTH (MM)	THICKNESS (MM)
13	3800-10500 ± 100	600-2,000MM ± 10	195 ± 5
14			245 ± 5
15	OTHER SIZE AND TOLERANCES ARE NEGOTIABLE.		



WHEN YOU NEED TO BE SURE

STEEL ROLLED COIL



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STEEL ROLLED COIL

NO	PRODUCT TYPE	INTERNAL DIAMETER MM2	THICKNESS (M.M.)	WIDTH (M.M.)
1	HOT ROLLS	760	1.5-16	600-1,850
2	PICKLED	760	1.5-5.3	600-1,650
3	WIDE COLD COILS	610	0.30-3	600-1,620
4	COLD NARROW STRIP COILS	610	0.35-2	60-599
5	TIN PLATED COILS	420	0.18-0.4	600-1,050
6	GALVANIZED COILS	508 OR 610	0.25-2	750-1,500
7	COLOR COATED COILS	508 OR 610	0.25-1.5	750-1,500
8	T INDEX	96% MIN		



STEEL COIL



WHEN YOU NEED TO BE SURE

STEEL SHEET



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STEEL SHEET

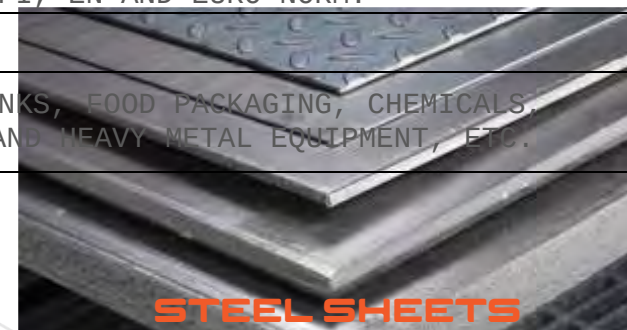
No	PRODUCT TYPE	INTERNAL DIAMETER MM2	THICKNESS (M.M.)	WIDTH (M.M.)
1	HOT ROLLS	1,000-12,000	600-1,850	1.5-16
2	PICKLED	760	600-1,620	0.30-3
3	WIDE COLD COILS	610	600-1,000	0.18-0.4
4	COLD NARROW STRIP COILS	610	0.35-2	60-599

STANDARDS

THE STANDARD ARE NATIONAL AND INTERNATIONAL STANDARDS SUCH AS K.S (THE INSTITUTE OF STANDARDS AND INDUSTRIAL RESEARCH OF KOREA), JIS, DIN, UNA ASTM, AFNOR, BS, SAE/AISI, API, EN AND EURO NORM.

APPLICATIONS

AUTOMOBILE MANUFACTURING, HOME APPLIANCES, PIPE BUILDING, PRESSURIZED TANKS, FOOD PACKAGING, CHEMICALS, PHARMACEUTICALS, CONSTRUCTION, METALS, TRANSPORTATION, MARITIME, LIGHT AND HEAVY METAL EQUIPMENT, ETC.



STEEL SHEETS

WHEN YOU NEED TO BE SURE

GRADES OF STEEL SHEETS FOR OIL & GAS TRANSMISSION LINES



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GRADES OF STEEL SHEETS FOR OIL & GAS TRANSMISSION LINES

NO	STANDARD	API 5L
1	GRADES	X42M, X46M, X52M, X56M, X60M, X65M, X70M, X80M
2	APPLICATION:	• OIL, GAS, WATER TRANSMISSION LINES
3		• CASING PIPES
4	ATTRIBUTES:	• LOW AMOUNTS OF CARBON, SULFUR AND PHOSPHORUS
5		• SUITABLE STRENGTH AND TOUGHNESS
6		• CLEAN STEEL
7		• MICRO-ALLOY STEELS SUCH AS NB, TI, V
8		• CORROSION RESISTANCE AND HIC TESTS, SSCC
9		• SUITABLE RESISTANCE TEST DWTT
10		• THERMO MECHANICAL ROLLING
11	FEATURES:	• HIGH STRENGTH
12		• SUITABLE TOUGHNESS AT LOW TEMPERATURES
13		• PROPER WELDABILITY
14		• CORROSION RESISTANT AND HIC AND SSCC TESTS
15	DELIVERY CONDITIONS:	• ROLLED (AS ROLLED)
16		• THERMO MECHANICAL CONTROLLED COOLING



OIL & GAS PIPES

WHEN YOU NEED TO BE SURE

STEEL SHEETS FOR SHIP BUILDING



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STEEL SHEETS FOR SHIP BUILDING

NO	STANDARD	KR
1	GRADES	A TO E, AH 32 TO 40, DH 32 TO 40, EH 32 TO 40, FH 32 TO 40, FH 32 TO 40, RSP 42 TO 49,
2		RPV 24 TO 50, RL 235 TO 360, AH 43 TO 70, DH 43 TO 70, EH 43 TO 70, FH 43 TO 70.
3	APPLICATION:	• SHIPS
4		• MARINE STRUCTURES
5		• TANKERS
6		• BARGES
7	FEATURE:	• CLEAN STEEL WITH LOW AMOUNTS OF CARBON AND SULFUR
8		• ADDITION OF COPPER AND NICKEL
9		• RESISTANT TO ENVIRONMENTAL CORROSION
10		• MICROALLOY STEELS SUCH AS V, TI, NB
11		• HIGH STRENGTH AND TOUGHNESS
12	MECHANICAL PROPERTIES:	• NORMALIZED IN HEAT TREATMENT FURNACE
13		• HIGH STRENGTH
14		• SUITABLE TOUGHNESS AT LOW TEMPERATURES
15		• CORROSION RESISTANT
16	DELIVERY CONDITIONS:	• FATIGUE RESISTANT
17		• NORMALIZED IN HEAT TREATMENT FURNACE
18		• ROLLED (AS ROLLED)
19		• THERMO MECHANICALLY CONTROLLED PROCESSING
20		• NORMALIZING ROLLING
21		• NORMALIZED IN HEAT TREATMENT FURNACE



**STEEL PLATE
FOR SHIP BUILDING**

WHEN YOU NEED TO BE SURE

STEEL SHEETS OF PRESSURE VESSELS



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STEEL SHEETS OF PRESSURE VESSELS

NO	STANDARD	DETAIL
1	STANDARD	EN10028-3, AFNOR-NF-A36 ASTM A573
2	GRADES	P256, P275, P285, P345, P355, P400, P420, P440, P460, A285, A299, A515, A516, A537
3		ASTM A573
4	APPLICATION:	• BOILERS
5		• PRESSURE VESSELS
6		• REFINERIES
7		• HEAT EXCHANGERS
8		• POWER PLANTS
9	ATTRIBUTES:	• CLEAN STEEL WITH LOW AMOUNTS OF SULFUR AND PHOSPHORUS
10		• MICRO ALLOY STEELS SUCH AS V, TI, NB
11		• HIGH STRENGTH AND TOUGHNESS
12		• THERMO MECHANICAL ROLLING
13	FEATURES:	• NORMALIZED IN HEAT TREATMENT FURNACE
14		• HIGH STRENGTH
15		• SUITABLE TOUGHNESS AT LOW TEMPERATURES
16		• CREEP RESISTANCE
17	DELIVERY CONDITIONS:	• CREEP RESISTANCE
18		• ROLLED (OR ROLLED)
19		• THERMO MECHANICALLY ROLLED
20		• NORMALIZING ROLLING
21		• NORMALIZED IN HEAT TREATMENT FURNACE
22		• QUENCHED AND TEMPERED



WHEN YOU NEED TO BE SURE

ABRASION RESISTANT OR HIGH YIELD STRENGTH STEEL SHEETS (QUENCHED AND TEMPERED)



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ABRASION RESISTANT OR HIGH YIELD STRENGTH STEEL SHEETS (QUENCHED AND TEMPERED)

NO	STANDARD	DETAIL
1	STANDARD	EN10025-6, ASTM A517, EN10083-3
2	GRADES	S460Q, S500Q, A550Q, A620Q, A690Q, A890Q, S960Q, A517, 34CRM04
3	APPLICATION:	• MINES
4		• MACHINERY
5		• CEMENT INDUSTRY
6		• FRONT LOADERS
7	ATTRIBUTES:	• CLEAN STEEL WITH LOW AMOUNTS OF PHOSPHORUS AND SULFUR
8		• ALLOY STEELS SUCH AS CR, MO, NI
9		• PROPER ABRASION RESISTANCE
10		• PROPER STRENGTH AND TOUGHNESS
11	FEATURES:	• QUENCH AND TEMPERED STEEL
12		• HIGH STRENGTH
13		• HIGH HARDNESS
14		• WEAR RESISTANT
15	DELIVERY CONDITIONS:	• GOOD WELDABILITY
16		• THERMO MECHANICALLY ROLLED
17		• NORMALIZED IN HEAT TREATMENT FURNACE
18		• QUENCHED AND TEMPERED
19		



**ABRASION RESISTANT
QUENCHED AND TEMPERED**

WHEN YOU NEED TO BE SURE

STEEL REBARS



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SOPEL INC



STEEL REBARS

BS00A

BS00B

BS00C

THERMIC PRODUCTS PRODUCTION IN ACCORDANCE BS 4449:2005+A3:2016

THERMIC PRODUCTS PRODUCTION IN ACCORDANCE BS 4449:2005+A3:2016. MECHANICAL PROPERTIES, DIMENSIONS, MASS PER UNIT LENGTH, NOMINAL CROSS-SECTIONAL AREA AND CHEMICAL ANALYSIS ARE IN ACCORDANCE)BS 4449:2005+A3:2016(AND IT IS CHANGEABLE BASED ON CUSTOMER REQUIREMENTS AND ORDERS.

NO	NOMINAL DIAMETER (MM)	NOMINAL CROSS-SECTIONAL	MASS PER UNIT LENGTH (KG/M)	MIN MASS PER UNIT LENGTH (KG/M)	MAX MASS PER UNIT LENGTH (KG/M)	MAX HEIGHT LONGITUDINA L RIB (MM)	HEIGHT TRANSVERS RIB (MM)	
							MIN	MAX
1	8	50.3	0.395	0.371	0.419	0.8	0.24	1.2
2	10	78.5	0.617	0.589	0.645	1	0.3	1.5
3	12	113	0.888	0.848	0.928	1.2	0.36	1.8
4	16	201	1.58	1.509	1.651	1.6	0.48	2.4
5	20	314	2.47	2.359	2.581	2	0.6	3
6	25	491	3.85	3.677	4.023	2.5	0.75	3.75
7	32	804	6.31	6.026	6.594	3.2	0.96	4.8
8	40	1257	9.86	9.416	10.304	4	1.2	6
9	50	1963	15.4	14.707	16.093	5	1.5	7.5

CHEMICAL COMPOSITION OF STEEL RIBBED BARS: (A4-AJ500)-ACCORDING TO INSO 3132

NO	GRADE	DIN	%C		%SI		%MN		%P	%S	%CR	%NI	%CU
			MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX	MAX	MAX	MAX
1	GOST 380												
2	(2005) ST 5SP	1.005	0.28	0.33	0.15	0.3	0.7	0.85	0.04	0.04	0.2	0.2	0.03
3	CONFORMITY STANDARD		MECHANICAL PROPERTIES (A4-AJ500): RIBBED BARS 12-32MM										
4							MINIMUM ELONGATION						
5	DIN488-1, ISO6935-1, BS4449, ASTM A615/A615M		MINIMUM YIELD STRENGTH (N/MM ²)		MINIMUM TENSILE STRENGTH (N/MM ²)				%	MINIMUM TENSILE STRENGTH (N/MM ²) YIELD STRENGTH			
6										1.25			
7			500		650				8				



STEEL REBARS

WHEN YOU NEED TO BE SURE

REBAR IN ALL SIZE IN ACCORDANCE TS 708/NISAN 2010



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REBAR IN ALL SIZES IN ACCORDANCE TS 708/NISAN 2010

THERMIC PRODUCTS PRODUCTION IN ACCORDANCE BS 4449:2005+A3:2016

THERMIC PRODUCTS PRODUCTION IN ACCORDANCE BS 4449:2005+A3:2016. MECHANICAL PROPERTIES, DIMENSIONS, MASS PER UNIT LENGTH, NOMINAL CROSS- SECTIONAL AREA AND CHEMICAL ANALYSIS ARE IN ACCORDANCE)BS 4449:2005+A3:2016(AND IT IS CHANGEABLE BASED ON CUSTOMER REQUIREMENTS AND ORDERS.

NO	NOMINAL DIAMETER (MM)	NOMINAL CROSS-SECTIONAL	MASS PER UNIT LENGTH (KG/M)	MIN MASS PER UNIT LENGTH (KG/M)	MAX MASS PER UNIT LENGTH (KG/M)	MAX HEIGHT LONGITUDINA L RIB (MM)	HEIGHT TRANSVERS RIB (MM)	
							MIN	MAX
1	8	50.3	0.395	0.363	0.427	1.2	0.52	0.36
2	10	78.5	0.617	0.58	0.654	1.5	0.65	0.45
3	12	113	0.888	0.835	0.941	1.8	0.78	0.54
4	14	154	1.21	1.15	1.271	2.1	0.91	0.63
5	16	201	1.58	1.501	1.659	2.4	1.04	0.72
6	20	314	2.47	2.347	2.594	3	1.3	0.9
7	25	491	3.85	3.696	4.004	3.75	1.63	1.13
8	28	616	4.84	4.646	5.034	4.2	1.82	1.26
9	32	804	6.31	6.058	6.562	4.8	2.08	1.44
10	40	1257	9.86	9.466	10.254	6	2.6	1.8
11	50	1963	15.4	14.803	16.037	7.5	3.25	2.25

STEEL REBARS

PRODUCING REBAR IN ALL SIZES IN ACCORDANCE TS 708/NISAN 2010. DIMENSIONS, MASS PER UNIT LENGTH, NOMINAL CROSS-SECTIONAL AREA OF RIBBED BARS ACCORDING TO TS 708/NISAN 2010

NO	NOMINAL DIAMETER (MM)	NOMINAL CROSS-SECTIONAL	MASS PER UNIT LENGTH (KG/M)	MIN MASS PER UNIT LENGTH (KG/M)	MAX MASS PER UNIT LENGTH (KG/M)	MAX HEIGHT LONGITUDINA L RIB (MM)	HEIGHT TRANSVERS RIB (MM)	
							MIN	MAX
1	8	50.3	0.395	0.371	0.419	1.2	0.24	1.2
2	10	78.5	0.617	0.589	0.645	1.5	0.3	1.5
3	12	113	0.888	0.848	0.928	1.8	0.36	1.8
4	14	154	1.21	1.156	1.265	2.1	0.42	2.1
5	16	201	1.58	1.509	1.651	2.4	0.48	2.4
6	18	254.4	2	1.91	2.09	2.7	0.54	
7	20	314	2.47	2.359	2.581	3	0.6	
8	22	380	2.985	2.851	3.119	3.3	0.66	
9	25	491	3.85	3.677	4.023	3.75	0.75	
10	28	616	4.84	4.613	5.047	4.2	0.84	
11	32	804	6.31	6.026	6.594	4.8	0.96	
12	40	1257	9.86	9.416	10.304	6	1.2	
13	50	1963	15.4	14.707	16.093	7.5	1.5	

STEEL REBARS

WHEN YOU NEED TO BE SURE

GRADE IN ACCORDANCE ASTM-A615 STANDARD



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GRADE IN ACCORDANCE ASTM-A615 STANDARD

NO	CONFORMITY STANDARDS	MECHANICAL PROPERTIES (A3-AJ400): NOMINAL DIAMETER STEEL 8-10MM			
1	1-DIN 488:2009 REINFORCING STEELS- PART 1: GRADES, PROPERTIES, MARKING	MIN YIELD STRESS (N/MM ²)	MIN TENSILE STRENGTH (N/MM ²)	MINIMUM ELONGATION %	TENSILE /YIELD RM/REH
2	2-DIN488-2: 2009 REINFORCEMENT OF CONCRETE-PART2 RIBBED BARS				
3	3- ISO 6935-2:2007 STEEL FOR THE REINFORCEMENT OF CONCRETE-PART2 RIBBED BARS				
4	4.GOST 5781-82: 1993 HOT-ROLLED	400	600	12	1.25
5	STEEL BARS FOR THE REINFORCEMENT OF CONCRETE				
6	5. ASTM A615/A615M:2005 STANDARD SPECIFICATION FOR DEFORMED AND PLAIN				
7	CARBON-STEEL BARS FOR CONCRETE REINFORCEMENT				

TECHNICAL SPECIFICATION OF HOT-ROLLED STEEL BARS FOR REINFORCEMENT OF CONCRETE.



WHEN YOU NEED TO BE SURE

TECHNICAL SPECIFICATIONS OF COMMON AND ROUTINE PRODUCTS TECHNICAL SPECIFICATION OF STEEL BARS



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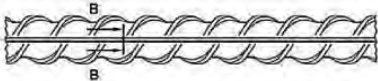
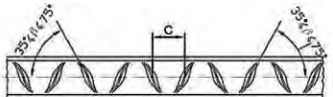
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TECHNICAL SPECIFICATIONS OF COMMON AND ROUTINE PRODUCTS TECHNICAL SPECIFICATION OF STEEL BARS.

NO	TYPE		MIN YIELD STRESS R _{EH} (N/MM ²)	MIN TENSILE STRENGTH (N/MM ²)	TENSILE /YIELD RM/REH	MINIMUM ELONGATION
	STD ISIRS 3132	STD GOST 5781				
1	A I	S240	240	360		18
2		AJ340	340	500		15
3	A II	AJ350	350	500		-
4		AJ400	400	600		12
5	A III	AJ420	420	600		-
6		AJ500	500	650	1.25	8
7	A IV	AJ520	520	690		-
8	 AII  AIII  AIV					
9						

WHEN YOU NEED TO BE SURE

DIMENSIONS AND MASS



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DIMENSIONS AND MASS:

NO	NOMINAL DIAMETER (MM)	NOMINAL CROSS-SECTIONAL AREA (MM ²)	MASS PER UNIT LENGTH (KG/M)			TRANSVERS HEIGHT RIB (MM)
			STANDARD	MIN	MAX	
1	8	50.3	0.395	0.363	0.426	0.52
2	10	78.5	0.616	0.566	0.665	0.65
3	12	113	0.888	0.839	0.936	0.78
4	14	154	1.21	1.143	1.27	0.91
5	16	201	1.58	1.509	1.651	1.04
6	18	254	2	1.91	2.09	0.17
7	20	314	2.47	2.358	2.581	0.3
8	22	380	2.98	2.845	3.114	1.43
9	25	491	3.85	3.675	4.023	1.63
10	28	616	4.83	4.612	5.047	1.82
11	32	804	6.31	6.026	6.593	11 2.09
12	36	1018	7.99	7.63	8.349	2.34
13	40	1257	9.78	9.339	10.22	2.59

PRODUCTION OF GALVANIZED AND ALLOY REBARS IS ACCEPTED BY CUSTOMER ORDER.



WHEN YOU NEED TO BE SURE

STANDARD ASTM A510 GR SAE1008



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STANDARD ASTM A510 GR SAE1008

SIZE(mm)			Chemical Analysis (%)					Mechanical Properties				
			C	Si	Mn	P	S	Reh (Mpa)	Rm (Mpa)	El%	Mass/Meter	Bend Test
5.5	Standard	Min	-	0.15	0.3	-	-	-	-	-	0.367	Accepted
6.5												
8												
9		Max	0.12	0.3	0.5	0.04	0.05	285	340	20	0.423	
10	Product		0.09-0.1	0.09	0.37	0.011	0.016	-	385	25.5	0.406	

STANDARD ASTM A510 GR SAE1006

SIZE(mm)			Chemical Analysis (%)					Mechanical Properties				
			C	Si	Mn	P	S	Reh (Mpa)	Rm (Mpa)	El%	Mass/Meter	Bend Test
5.5	Standard	Min	-	0.15	0.25	-	-	-	-	-	-	Accepted
6.5												
8												
9		Max	0.08	0.3	0.4	0.04	0.05	285	330	20	-	
10												

OTHER SAE GRADES ARE MANUFACTURED TO ORDER FROM 1006 TO 1023.

WHEN YOU NEED TO BE SURE

SWRH82B STANDARD JIS G 3506



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SWRH82B STANDARD JIS G 3506

No	SIZE (MM)			CHEMICAL ANALYSIS (%)					MECHANICAL PROPERTIES	
				C	SI	MN	P	S	TENSILE PROPERTY	EL%
1	1.9	STANDARD	MIN	0.79	0.15	0.6	-	-	-	-
2	5.5									
3	6.5									
4	8									
5	9	STANDARD	MAX	0.86	0.35	0.9	0.03	0.03	-	-
6	10		PRODUCT	0.82	0.23	0.8	0.013	0.002	1226	-

SWRH72B STANDARD JIS G 3506

No	SIZE (MM)			CHEMICAL ANALYSIS (%)					MECHANICAL PROPERTIES	
				C	SI	MN	P	S	TENSILE PROPERTY	EL%
1	1.9	STANDARD	MIN	0.69	0.15	0.3	-	-	-	-
2	5.5									
3	6.5									
4	8									
5	9	STANDARD	MAX	0.76	0.35	0.6	0.03	0.03	-12	-
6	10		PRODUCT	0.72	0.23	0.8	0.013	0.002	995-1020	-

OTHER SWRH--B GRADES ARE MANUFACTURED TO ORDER.



WHEN YOU NEED TO BE SURE

STEEL WIRE ROD COIL



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STEEL WIRE ROD COIL

NO	PRODUCTS	APPLICATION	MATERIAL USED
1	WIRE	• REINFORCEMENT • MANUFACTURE OF WELDED AND FACING MATERIALS • PACKING • METALWARE PRODUCTION	LOW-CARBON, MEDIUM-CARBON, HIGH-CARBON, LOW ALLOY
2	COLD-WORKED REINFORCEMENT	REINFORCEMENT OF REINFORCED CONCRETE PRODUCTS	LOW-CARBON AND HIGH-CARBON
3	MESH	• GUARDINGS • REINFORCEMENT • SCREENING, • CLASSIFICATION, FILTERING	LOW-CARBON, MEDIUM-CARBON AND ALLOY STEEL
4	ELECTRODES	• WELDING • FACING	LOW-CARBON AND ALLOY STEEL WELDING
5	FIBRE	• REINFORCEMENT • CONSTRUCTION	LOW-CARBON, MEDIUM-CARBON AND HIGH-CARBON STEEL
6	NAILS	• REINFORCEMENT • CONSTRUCTION • WOODWORKING • FURNITURE PRODUCTION	LOW-CARBON
7	ROPES	• LIFTING MACHINERY AND EQUIPMENT • OIL AND GAS PRODUCTION • ROAD AND BRIDGE STRUCTURES • REINFORCEMENT OF REINFORCED CONCRETE • ROAD CONSTRUCTION AND AIRCRAFT CONSTRUCTION	LOW-CARBON, MEDIUM-CARBON, HIGH-CARBON AND ALLOY STEEL
8	FASTENING (BOLTS, NUTS, SCREWS, SELF-TAPPING SCREWS, ETC)	• MACHINE BUILDING • CONSTRUCTION • FURNITURE PRODUCTION AND WOODWORKING	HIGH-CARBON
9	TYRE CORD	• REINFORCEMENT OF TYRES • REINFORCEMENT OF RUBBER GOODS	



STEEL WIRE COIL



WHEN YOU NEED TO BE SURE

PIG IRON AND CAST IRON



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PIG IRON AND CAST IRON

NO.	TYPE	CODE	SI	S			P	MN	C
				GRADE 1	GRADE 2	GRADE 3			
1	WHITE CAST IRON	L10	-	=>0.03	0.05-0.03	<0.05	=<0.07	=<0.25	=>3.5_4.2
2	CASTING CAST IRON	Z14	=>1.25_1.60	=>0.03	0.05-0.03	<0.05	=<0.07	=<0.25	=>3.5_4.5
3		Z18	=>1.61_2.00	=>0.03	0.05-0.03	<0.05	=<0.07	=<0.25	=>3.5_4.6
4		Z22	=>2.01_2.40	=>0.03	0.05-0.03	<0.05	=<0.07	=<0.25	=>3.5_4.7
5		Z26	=>2.41_2.80		-		=<0.07	=<0.25	=>3.5_4.8
6		Z30	=>2.81_3.20		-		=<0.07	=<0.25	=>3.5_4.9

BY-PRODUCTS:

- IRON SKULL
- IRON SLAG
- IRON MILL SCALE
- DRI SLUDGE
- PELLETS FINES
- HEAD AND BOTTOM REBAR
- STEEL SHEET SCRAP
- HEAD AND BOTTOM BILLETS AND SLABS
- FURNACE DUST WITH HIGH IRON CONTENT 15
- FURNACE DUST WITH HIGH PERCENTAGE OF ZINC



WHEN YOU NEED TO BE SURE

COAL SPECIFICATION



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COAL SPECIFICATION

NO.	CLASSIFICATION IN ASTM STANDARD		LOW VALUE	CALORIFIC	MEDIUM CALORIFIC VALUE	HIGH CALORIFIC VALUE
1	GROSS CALORIFIC VALUE	GAR	4,200	KCAL/KG	5,000	KCAL/KG
2	NET CALORIFIC VALUE	NAR	3,800	KCAL/KG	4,700	KCAL/KG
3	TOTAL MOISTURE	ARB	36%		26%	14%
4	INHERENT MOISTURE	ADB	APPROXIMATELY	24%	18%	9%
5	ASH CONTENT	ADB	8%		5%	15%
6	VOLATILE MATTER	ADB	APPROXIMATELY	40%	40%	41%
7	ASH FUSION TEMPERATURE	T1	1,150	DEGREE CELSIUS	1,150	DEGREE CELSIUS
8	TOTAL SULFUR	ADB	0.80%		0.90%	0.60%
9	HGI	-	MINIMUM	45%		
10	SIZE 0-50MM	-	APPROXIMATELY	90%		



WHEN YOU NEED TO BE SURE

STEAM COAL SPECIFICATION



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STEAM COAL SPECIFICATION

NO	ARTICLE	SPECIFICATION
1	ANTHRACITE	6 - 13MM
2	ASH	MAX 10.5%
3	CFIX	MIN 87%
4	H2	MAX 3%
5	H2O	MAX 2%
6	S	MAX 1.2% +D4
7	SIZE	LESS THAN 6MM, MAX 10% ; GREATER THAN 13MM, MAX 10%
8	VOLATILE MATTER	MAX 2%

STEAM COAL SPECIFICATION

NO	ARTICLE	SPECIFICATION
9	2. ANTHRACITE	1 - 3MM
10	ASH	MAX 6%
11	CFIX	MIN 92%
12	H2O	MAX 6%
13	N2	MAX 1.5%
14	S	MAX 1%
15	SIZE	LESS THAN 1MM, MAX 5 %; GREATER THAN 3MM, MAX 5%
16	VOLATILE MATTER	MAX 5%

STEAM COAL

WHEN YOU NEED TO BE SURE

GRANULAR SULFUR SPECIFICATION



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GRANULAR SULFUR SPECIFICATION.

NO	ARTICLES	TEST RESULTS
1	PURITY WT% MIN	99.80%
2	ORGANIC ASH. WT%	0.008
3	INORGANIC ASH WT% MA	0.012
4	ACIDITY WT% CALCULATED H_2SO_4 MAX	0.01
5	MOISTURE WT %	0.05
6	COLOR	BRIGHT YELLOW
7	KIND OF SULPHUR	BLOCK OF SULPHUR TO BE CRUSHED AND LOADED BY THE BUYER

**GRANULAR SULFUR**

WHEN YOU NEED TO BE SURE

UREA FERTILIZER 46% NITROGEN AGRICULTURES GRADE SPECIFICATION



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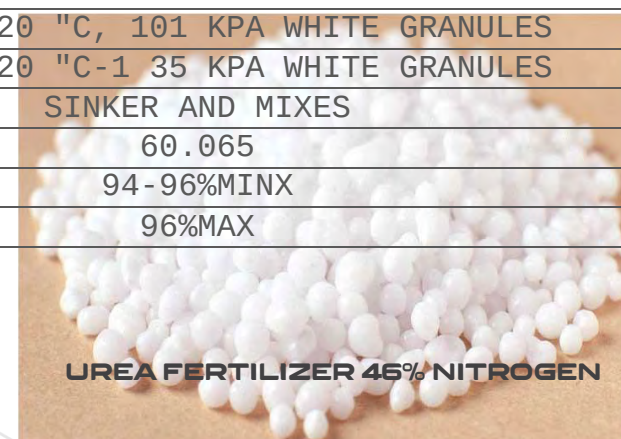


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SOPEL INC

UREA FERTILIZER 46% NITROGEN AGRICULTURES GRADE SPECIFICATION

NO	PRODUCT	SPECIFICATION
1	PRODUCT	UREA FERTILIZER 46% NITROGEN AGRICULTURES GRADE
2	NITROGEN	46% MINIMUM
3	MOISTURE	0.5MAX
4	FREE AMMONIA	160 PXT PPM MAXIMUM
5	BIURET	1.0% MAXIMUM
6	HARMFUL SUBSTANCES	100% FREE FROM
7	MELTING POINT	132 DEGREE CELSIUS
8	GRANULATION	1MM TO 4MM 90% MINIMUM
9	COLOR	WHITE STANDARD OR WHITE PURE
10	BOILING	ODORLESS
11	RADIATION	DECOMPOSES BEFORE BOILING
12	PHYSICAL STATE	NON-RAD ACTIVE
13	SPECIFIC GRAVITY	SOLID @ 20 °C, 101 KPA WHITE GRANULES
14	FLOATABILITY IN WATER	SOLID @ 20 °C-1 35 KPA WHITE GRANULES
15	MOLECULAR WEIGHT	SINKER AND MIXES
16	FERTILIZER WEIGHT	60.065
17	FERTILIZER GRANULAR	94-96%MINX
18	PRILL	96%MAX



UREA FERTILIZER 46% NITROGEN

WHEN YOU NEED TO BE SURE

DOLOMITE SPECIFICATION



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DOLOMITE SPECIFICATION

NO	ARTICLES	SPECIFICATION
	CALCIUM OXIDE	31.10%
2	CHEMICAL COMPOSITION	CAMG(CO ₃) ₂
3	CLEAVAGE	PERFECT, RHOMBOHEDRAL, THREE DIRECTIONS
4	COLOR	COLORLESS, WHITE, PINK, GREEN, GRAY, BROWN, BLACK
5	CRYSTAL SYSTEM	TRIGONAL
6	DIAGNOSTIC PROPERTIES	RHOMBOHEDRAL CLEAVAGE, POWDERED FORM EFFERVESCES WEAKLY IN DILUTE HCL, HARDNESS
7	DIAPHANEITY	TRANSPARENT TO TRANSLUCENT
8	IRON OXIDE	31.10%
9	LUSTER	VITREOUS, PEARLY
10	MAGNESIUM OXIDE	31.10%
11	MOHS HARDNESS	3.5 TO 4
12	SPECIFIC GRAVITY	2.8 TO 2.9
13	STREAK	WHITE
14	USES	CONSTRUCTION AGGREGATE, CEMENT MANUFACTURE, DIMENSION STONE, CALCINED TO PRODUCE LIME, SOMETIMES AN OIL AND GAS RESERVOIR, A SOURCE OF MAGNESIA FOR THE CHEMICAL INDUSTRY, AGRICULTURAL SOIL TREATMENTS, METALLURGICAL FLUX

DOLOMITE



WHEN YOU NEED TO BE SURE

SILICA/QUARTZ SAND FOR GLASS INDUSTRY TYPE1



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SILICA SAND FOR GLASS INDUSTRY TYPE1

NO	CHEMICAL COMPOSITION	PERCENTAGES
1	ALUMINUM OXIDE AS Al_2O_3	0.07
2	BORON AS B	Absent
3	CALCIUM OXIDE CaO	0.28
4	CHROMIUM OXIDE AS Cr_2O_3	Absent
5	IRON AS Fe_2O_3	0.05
6	LOSS ON IGNITION	0.17
7	MAGNESIUM OXIDE AS MgO	0.08
8	POTASSIUM OXIDE AS K_2O	0.003
9	SILICA AS SiO_2	99.32
10	SODIUM OXIDE AS Na_2O	0.02
11	SULFUR AS S	0.002
12	TITANIUM OXIDE AS TiO_2	Absent

SILICA SAND FOR GLASS INDUSTRY



WHEN YOU NEED TO BE SURE

SILICA/QUARTZ SAND FOR GLASS INDUSTRY TYPE2



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SILICA SAND FOR GLASS INDUSTRY TYPE 2

NO	CHEMICAL COMPOSITION	PERCENTAGES
1	ALUMINUM OXIDE AS Al_2O_3	0.12
2	BARIUM BAO	0.010
3	CALCIUM OXIDE CAO	< 0.013
4	IRON AS FE 2O3	0.025
5	LOSS ON IGNITION	0.017
6	MAGNESIUM OXIDE AS MGO	0.01
7	POTASSIUM OXIDE AS K_2O	0.08
8	SILICA AS SiO_2	99.70
9	SODIUM OXIDE AS Na_2O	< 0.013
10	TITANIUM OXIDE AS TiO_2	0.012
11	SULFUR AS S	0.002
12	TITANIUM OXIDE AS TiO_2	Absent

SILICA SAND FOR GLASS INDUSTRY



WHEN YOU NEED TO BE SURE

GRANULATED BLAST FURNACE SLAG



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GRANULATED BLAST FURNACE SLAG SPECIFICATION

NO	SAMPLE	ELEMENTS	ALKALIES	AL ₂ O ₃	FE ₂ O ₃	MGO	MOISTURE	MNO	S	SIO ₂	TIO ₂
1	1	%	0.46	2.91	0.27	2.6	8.59	0.16	0.3	42.22	0.13



WHEN YOU NEED TO BE SURE

GROUND GRANULATED FURNACE SLAG



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GROUND GRANULATED FURNACE SLAG SPECIFICATION

NO	SAMPLE	ELEMENTS	AL ₂ O ₃	BASICITY 1	BASICITY 2	CAO	CR ₂ O ₃	FE ₂ O ₃	MGO	MNO	P ₂ O ₅	SiO ₂	TOTAL FE	TiO ₂	V ₂ O ₅
1	1	%	5.25	1.75	1.61	29.46	0.28	34.08	11.86	1.14	0.37	18.3	23.83	0.9	0.68
2	2	%	6.11	1.64	1.59	29.35	0.28	36.21	11.14	0.92	0.39	18.47	25.32	1.06	0.78

ADDITIONAL INFORMATION.

NO	ARTICLE	PERCENTAGE	NO	ARTICLE	PERCENTAGE
1	FLAKINESS	2.00%	8	SAND EQUIVALENT	>85%
2	GLASS CONTENT SION	15~22%	9	SIZE	0~100MM
3	K2O CONTENT	0.03%	10	SPECIFICATION	3.50%
4	LA ABRASION	19.00%	11	SULPHUR CONTENT	0.02%
5	NA2O	0.13%	12	TOTAL FE CONTENT	12~26%
6	MOISTURE CONTENT	0.10%	13	WATER ABSORPTION	1.10%
7	PLASTICITY	0.10%			

WHEN YOU NEED TO BE SURE

COPPER CATHODE & TUBULAR ANALYSIS REPORT



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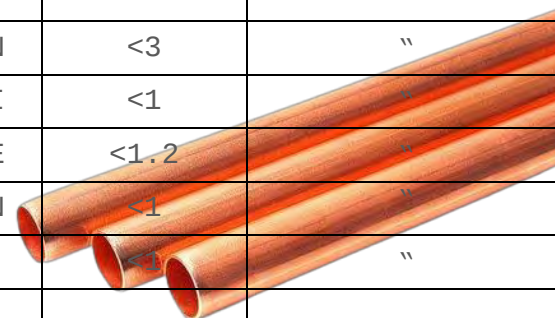


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COPPER CATHODE & TUBULAR ANALYSIS REPORT

NO	CU	99.994	%MIN	AS	<1	PPM	SB	<1	PPM
1	FE	<2	PPM	PB	<5	"	ZN	<3	"
2	MN	<0.5	"	CO	<2	"	NI	<1	"
3	S	<15	"	CD	<0.2	"	TE	<1.2	"
4	O	<50	"	SE	<0.4	"	SN	<1	"
5	BI	<1	"	SI	<1	"	P	<1	"
6	CR	<1	"	AG	<10	"			



WHEN YOU NEED TO BE SURE

ZINC ASH SPECIFICATION



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ZINC ASH SPECIFICATION

NO	ARTICLES	PERCENTAGES	PERCENTAGES	PERCENTAGES	PERCENTAGES	PERCENTAGES
1	AL MIN	0.10%	0.10%	0.10%	0.10%	0.10%
2	CI MIN	0.20%	0.20%	0.20%	0.20%	0.20%
3	FE MIN	0.80%	0.80%	0.80%	0.80%	0.80%
4	MOISTURE MIN	0.50%	0.50%	0.50%	0.50%	0.50%
5	PB MIN	0.60%	0.60%	0.60%	0.60%	0.60%
6	ZINC ASH	60.00%	65.00%	70.00%	80.00%	85.00%



WHEN YOU NEED TO BE SURE

EEAF DUST SPECIFICATION



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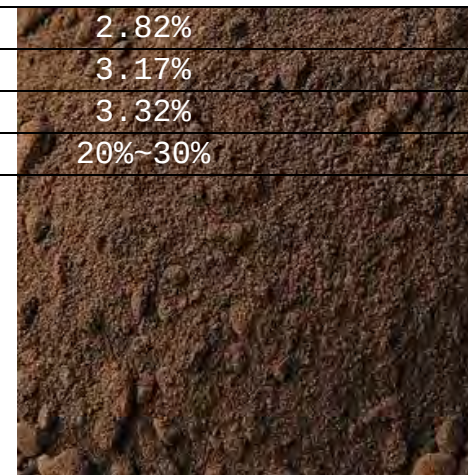


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SOPEL INC

E.A.F DUST

NO	ARTICLES	PERCENTAGES
1	AL	0.72%
2	CA	7.23%
3	CD	0.05%
4	CI MIN	7.02%
5	CR	0.11%
6	CU	0.08%
7	FE MIN	21.30%
8	K	2.68%
9	MG	0.53%
10	MN	1.55%
11	NA	2.82%
12	PB	3.17%
13	SI	3.32%
14	ZINC	20%~30%



WHEN YOU NEED TO BE SURE

QUALITY CONTROL



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SOPEL INC

QUALITY CONTROL

QUALITY CONTROL IS THE SET OF MEASURES AND PROCEDURES TO FOLLOW IN ORDER TO ENSURE THAT THE QUALITY OF A PRODUCT IS MAINTAINED AND IMPROVED AGAINST A SET OF BENCHMARKS AND THAT ANY ERRORS. OUR STAFF PERSONALLY STAY ON EACH LOADING TO SUPERVISE QUALITY, QUANTITY.

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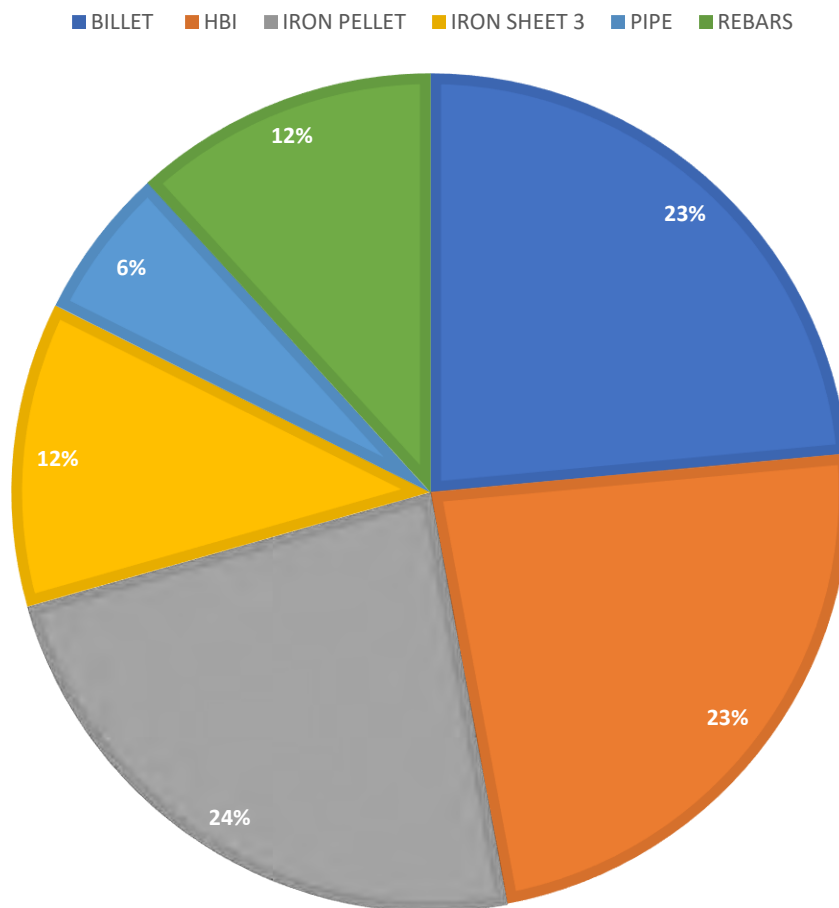


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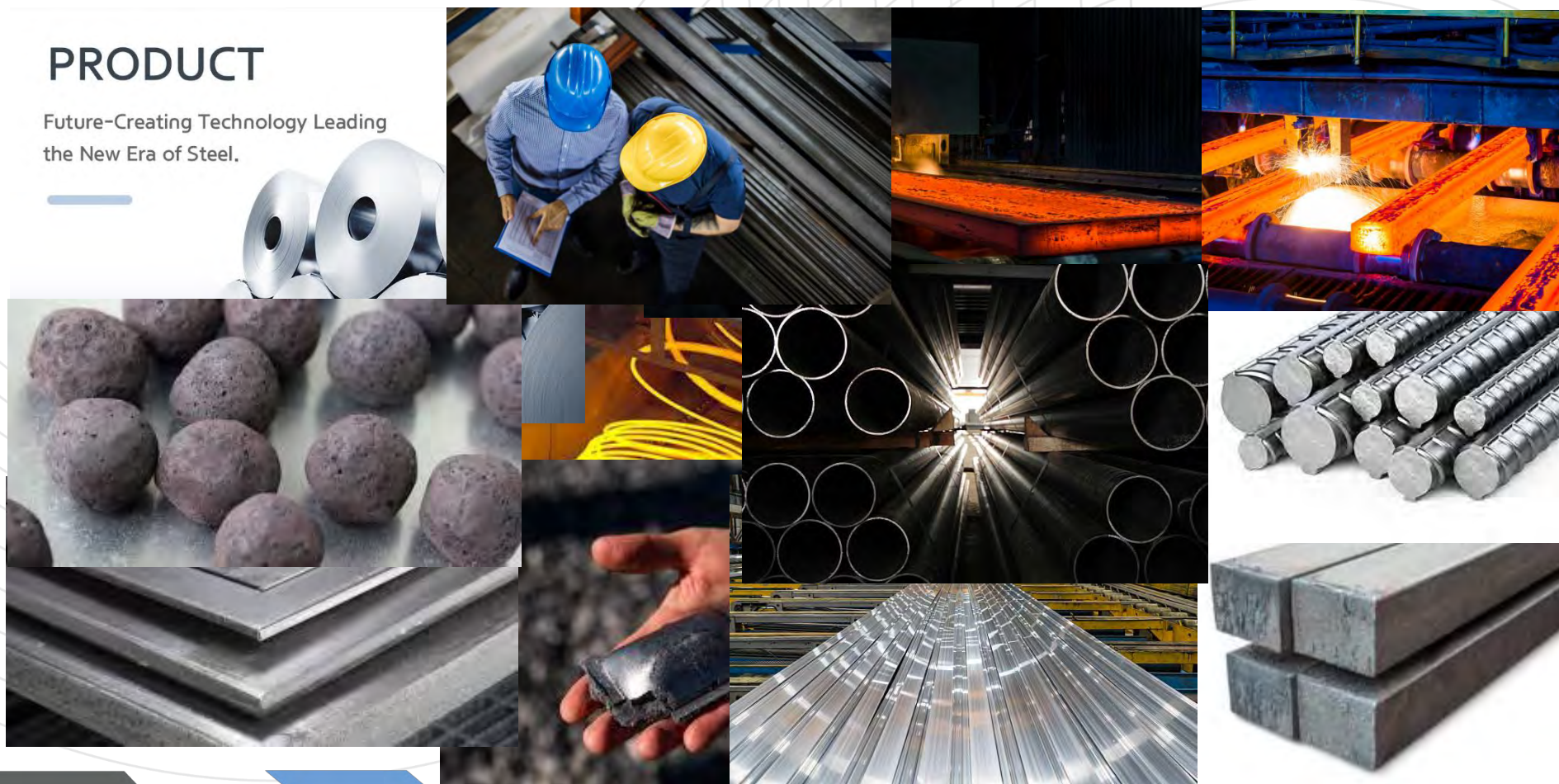


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THANK YOU VERY MUCH FOR YOUR COOPERATION & CONSIDERATION

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