



Jeil Industrial
Global Value Connector







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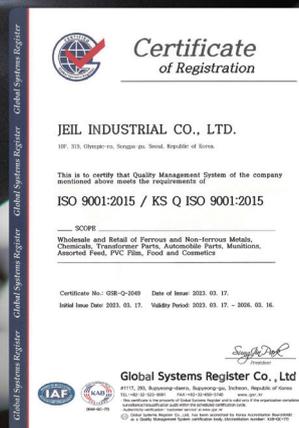
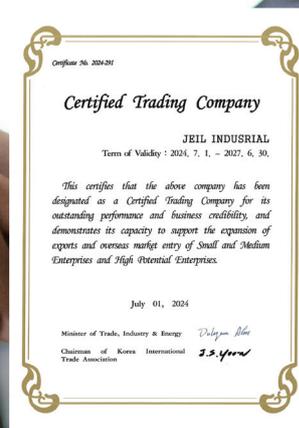
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HISTORY

Jeil Industrial History



2024	Dec	Established Jeil Industrial at Pakistan Karachi
	Oct	MOU with Thailand Navy & Marine
	Oct	MOU with Thailand DTI (Defense Technology Institute) & Raystorm M
	Jul	Vendor Registration in ISMQ Egypt (Minister of Egypt Economic Public Affairs)
2023	Oct	Jeil Group Vision Declaration Ceremony Celebrating the 15th anniversary
	Jun	Established Joint Venture at Nigeria Lagos
	May	Set 8 Parachute Simulators in Indonesia Army (Jakarta)
Feb	Established Branch Office at Singapore	
2022	Dec	Received "Emerging market Contribution Award" from Ministry of Trade, Industry and Energy
	Dec	Surpassed Annual \$80,000,000 Trading Record of Non-Ferrous Metal Resources
	Aug	Won 8 Parachute Simulators Contract from Indonesia Ministry of National Defense
2021	Nov	Won 6 Parachute Simulators Contract from Indonesia Ministry of National Defense
	Oct	Signed MOU of EV2W Parts with IMI, PT.Brumbum and PT.Garda-Energi
	Oct	Hyundai EV Project Presentation to President of Indonesia, Joko Widodo
2020	Nov	Won 4 Parachute Simulators Contract from Indonesia Ministry of National Defense
	Jun	Surpassed \$20,000,000 Trading Record of Aluminium Ingot / Billet Resource
	Fed	Won 5 Years / 50,000 EA of EV2W Parts Contracts from Indonesia GESITS
2019	Oct	Designated by Hyundai Kefco as an Exclusive Supplier / distributor of EV2W Parts in Indonesia
	Jul	Designated as Certified Trading Company by the Ministry of Trade, Industry and Energy and the Korea International Trade Association
	May	Designated by KR Motors as Supplier / Agency of EV2W in Indonesia
Apr	Designated as Vendor/Supplier of Indonesia PLN	
2018	Oct	Annual Contract of Copper Alloy Strips with Minda Corporation India
2017	May	Designated as POSCO PNS Agency
	Mar	Designated as Fujisei & Zhenjiang Yuanlong Agency
	Jan	Enrolled as Rajendra main supplier of Copper Alloy Strip
2015	Dec	Designated as Supplier of Ministry of National Defense Indonesia
2014	Jul	Designated as sole agency of POSCO Daewoo for Indonesia electric Power Corporation
2012	Dec	Awarded the tower of \$20 Million Export
2011	Dec	Awarded a citation from the Ministry of Knowledge Economy
	Nov	Awarded the tower of \$10 Million Export
	Jun	Converted into a Corporation
2008	Sep	Established Jeil Trading



GLOBAL PARTNERS

70bases in 39 countries / Suppliers & Customers

Global



South America

Peru, Brazil

North America

United States of America, Mexico

Oceania

Australia / New Zealand

Europe

Italy / Greece / Albania / Romania / Germany / United Kingdom / Spain / Bosnia / Cyprus / Russia / Croatia / Poland / Türkiye

Asia

Japan / Oman / Korea / Indonesia / Thailand / China / SriLanka / Taiwan / Malaysia / India / Vietnam / Singapore / Saudi Arabia / Pakistan / UAE / Hong Kong / Qatar

Africa

Nigeria / Cameroon / Egypt / Angola / Tanzania / Mauritius / Ghana / South Africa / Gabon / Senegal / Mazambique / Morocco / Zambia

User





PRODUCT



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Ferro Alloys	37

Non Ferrous Metal



Copper Strip & Sheet



Copper Ingot



Copper Cathode



Copper Scrap



Copper Wire



Copper Enameled Wire



Copper Ctc



Copper Alloy Strip & Sheet



Brass Ingot



Brass Scrap



Brass Wire



Phosphor Copper Master alloy

Non Ferrous Metal



Aluminium Ingot



Aluminium Scrap



Aluminium Billet



Aluminium Coil



Aluminium Sheet



Silicon Metal



Zinc Ingot



Zinc Antimony 5%



Zinc Dross



Zinc Eaf Dust



Lead Ingot



Electrical Contact Point

Non Ferrous Metal



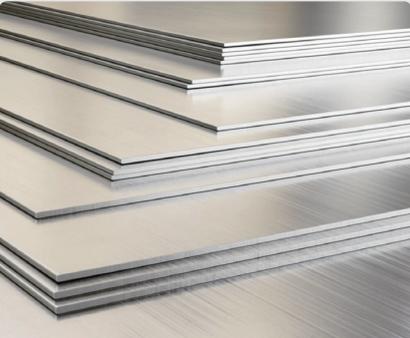
Silver Wires



Magnesium Ingot



Magnesium Scrap



Ferro Metal Steel Sheet

Non Ferrous Metal

Copper Strip & Sheet		
Name	Alloy No.	Usage
Oxygen Free Copper	C1020	High Electrical Conductivity
Tough Pitch Copper	C1100	Electrical Parts
Phosphorus Deoxidized Copper	C1220	Air conditioners, Heat Exchanger Tube
Fe-Bearing Copper	C19210	Connector, Radiator Fin Material
Sn-Bearing Copper	C14410	Connector, Radiator Fin Material
Beryllium Copper	C17200	Cell phone, Battery

Copper Ingot														
	(+) Sb %	(+) Cd %	(+) Bi %	(+) Ag %	(-) Co %	(+) Al %	(+) S %	(+) Be %	(+) Zr %	(+) Au %	(+) B %	(+) Ti %	(-) Nb %	Cu %
1	0.0271	0.0003	0.0001	0.0075	<0.0001	0.0121	0.0005	0.0018	0.0009	0.0021	<0.0001	0.0003	<0.0001	99.8288
2	0.0228	0.0004	0.0006	0.0077	<0.0001	0.0042	0.0004	0.0008	0.0011	0.0018	<0.0001	0.0004	<0.0001	99.8624
3	0.0069	0.0004	<0.0001	0.0075	<0.0001	0.0063	0.0006	0.0004	0.0006	0.0003	<0.0001	0.0004	<0.0001	99.9206
Avg.	0.0189	0.0004	<0.0001	0.0076	<0.0001	0.0075	0.0005	0.0010	0.0009	0.0014	<0.0001	0.0004	<0.0001	99.8706
R.S.D	56.1	16.9	-	1.5	-	60.9	19.7	69.8	28.6	69.8	-	16.4	-	0.0

Copper Cathode			
CHEMICAL COMPOSITION		COPPER CATHODE	
Copper	(Cu)	%	99.998
Iron	(Fe)	PPM	6.6
Sulphur	(S)	PPM	4.8
Tellurium	(Te)	PPM	< 1.5
Tin	(Sn)	PPM	< 1.0
Silicon	(Si)	PPM	< 1.0
Antimony	(Sb)	PPM	< 1.0
Lead	(Pb)	PPM	< 1.0
Zinc	(Zn)	PPM	< 0.5
Selenium	(Se)	PPM	< 0.5
Phosphorus	(P)	PPM	< 0.5
Nickel	(Ni)	PPM	< 0.5
Manganese	(Mn)	PPM	< 0.5
Chromium	(Cr)	PPM	< 0.5
Cobalt	(Co)	PPM	< 0.5
Cadmium	(Cd)	PPM	< 0.5
Bismuth	(Bi)	PPM	< 0.5
Arsenic	(As)	PPM	< 0.5
Silver	(Ag)	PPM	< 0.5

Copper Scrap	
COPPER SCRAP	
ITEM	Birchcliff / Clove / Milberry

Non Ferrous Metal

Copper Alloy Strip & Sheet		
Name	Alloy No.	Usage
Gilding 95%	C2100	Coin, Medal, Bullet
Commercial Bronze 90% Red Brass 85%	C2200 / C2300	Lipstick case, Jewelry, Etching parts, costume
Cartridge Brass 70%	C2600	Radiator tank, ammunition component
Yellow Brass 65%	C2680	Radiator core, revets, screws
Yellow Brass 63%	C2720	Eyelets, Fasteners
Muntz Metal 60%	C2801	Pannels, Nuts, Bolt
Naval Brass	C46400	Propeller shafts , Marine hardware
Phosphor Bronze	C5102 / C5191 / C5210	Electronical parts, Bearrng plates
Nickel Silver	C7521 / C7701	Camera parts, Optical goods

Brass Ingot					
Chemical Composition		Brass Ingot Cu1		Brass Ingot Cu70	
Copper	(Cu)	52-62	Copper	(Cu)	Min 70%
Zn	(Zn)	35-40	Tin/Nickel	(Sn/Ni)	(+/-) 3%
Iron	(Fe)	0.5-2.5			
Tin	(Sn)	0.1-1.5			
Nickel	(Ni)	1% Max			
Manganese	(Mn)	0.5-4.0			
Aluminium	(Al)	0.5-3.0			

Brass Scrap	
BRASS SCRAP	
ITEM	Mixed Brass 2% Max Attach.

Brass Wire						
Alloy number	Chemical Composition %					
KS/JIS	Cu	Pb	Fe	Sn	Zn	Others
C2600	68.5~71.5	0.05	0.05	-	Rem.	
C2700	63.0-67.0	0.05	0.05	-	Rem.	-
C2800	59.0-63.0	0.1	0.07	-	Rem.	

Phosphor Copper Master alloy	
Phosphor Copper Master Alloy(15% Phosphor Copper)	
Composition	P14.5% ↑ Fe0.02% ↓ Pb0.006% ↓ Cu - Bal.
Shape & Type	01 Waffle Type : 50T x 160W x 250L / approximately 12KG/EA 02 Shot Type : 2.00mm x 7.0mm Dia(Possible to make customized size discussing with factory)
Color	Grey
Packing	Steel drum(750KG & 500KG) on WoodenPallet

Non Ferrous Metal

Aluminium Ingot

-	Si	Fe	Cu	Mn	Zn	Mg	Ni	Sn	Cr	Ti	Pb	Al
ADC12	9.6-12	1.0	1.5-3.5	0.35	1.0	0.3	-	-	-	-	0.15	Remainder
EN 46000	8-11	1.3	2.0-4.0	0.55	1.2	0.05-0.55	0.55	0.25	0.15	0.25	0.35	Remainder
A380	7.5-9.5	2.0	3.0-4.0	0.50	3.0	0.1	0.5	0.35	-	-	-	Remainder
UBC INGOT	0.40	0.80	0.30	0.90	0.30	0.30	-	-	-	-	0.05	96.0 Min
OFF GRADE	As Per request from customer											
AK5M2	4.0-6.2	0.6-1.0	1.45-1.7	0.5	1.0	0.3	0.3	0.3	-	-	0.2	Remainder
LM24	7.5-9.5	1.3	3.0-4.0	0.5	3.0	0.3	0.5	0.3	0.5	0.2	0.5	Remainder
P1020	0.10% Max	0.20% Max	-	-	-	-	-	-	-	-	-	99.7% Min

Aluminium Scrap

ITEM	UBC / Wheel / 6063 Extrusion (99/1,95/5) / Taint Tabor / Puck / Tense / Trump
	AL 10, 30, 50, 60, 70 series scrap

Aluminium Billet

NAME	USAGE	Si	Fe	Cu	Si	Mn	Mg	Cr	Zn	Ti	Others-Each	Others-Total	Al
6060	PICTURE FRAMES, FURNITURE	0.3-0.6	0.1-0.3	0.0-0.1	0.3-0.6	0.0-0.1	0.35-0.6	0.0-0.05	0.0-0.15	0.0-0.1	0.0-0.05	0.0-0.15	Remainder
6061	STEEL TOWER, CRAIN, VESSEL, WHEEL, LAND STRUCTURE	0.4-0.8	0.0-0.7	0.15-0.4	0.4-0.8	0.0-0.15	0.8-1.2	0.04-0.35	0.0-0.25	0.0-0.15	0.0-0.05	0.0-0.15	Remainder
6063	SASH, Structural Sash	0.2-0.6	0.0-0.35	0.0-0.1	0.2-0.6	0.0-0.1	0.45-0.9	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.05	0.0-0.15	Remainder
7075	AIRCRAFT STRUCTURE	0.0-0.4	0.0-0.5	1.2-2.0	0.0-0.4	0.0-0.3	2.1-2.9	0.18-0.28	5.1-6.1	0.0-0.2	0.0-0.05	0.0-0.15	Remainder

Aluminium Coil

Alloy	Temper
A1050	H22/H24/H26/O
A1100	H22/H24/H26/O
A3003	H22/H24/H26/O
A5052	H22/H24/H26/O

Aluminium Sheet

Alloy	Temper
A1050	H22/H24/H26/O
A1100	H22/H24/H26/O
A3003	H22/H24/H26/O
A5052	H22/H24/H26/O

Zinc Ingot

ITEM	Al	Cu	Mg	Fe	Sn	Pb	Cd	Zn
Zinc Alloy Ingot	Can be customized as per request							93% Min-98% Max
ZAMAK 3(ZNDC2)	3.9-4.3%	0.03% Max	0.03-0.06%	0.075 Max	0.001 Max	0.003 Max	0.002 Max	Bal.
ZAMAK 5(ZNDC1)	3.9-4.3%	0.75-1.25%	0.03-0.06%	0.075 Max	0.001 Max	0.003 Max	0.002 Max	Bal.

Zinc Dross

SPEC	ZN 88-97% as per buyer's request

Non Ferrous Metal

Silicon Metal				
Grade	Si min.	Fe max.	Al max.	Ca max.
97 silicon	97.0%	1.5%	1.0%	0.30%
silicon metal 553	98.5%	0.5%	0.5%	0.30%
silicon metal 551	98.5%	0.5%	0.5%	0.10%
silicon metal 441	99.0%	0.4%	0.4%	0.10%
silicon metal 421	99.3%	0.4%	0.2%	0.10%
silicon metal 3303	99.3%	0.3%	0.3%	0.03%
silicon metal 2202	99.5%	0.2%	0.2%	0.02%
Size	10-100mm, 90% min			
Packing	Plastic wpvem bags of 1MT each			

Zinc Antimony 5%		
CHEMICAL COMPOSITION	ZINC ANTIMONY 5%	
	Min	Max
Al	-	0.05
Cu	-	0.001
Mg	-	0.002
Fe	-	0.02
Pb	-	0.004
Sn	-	0.002
Cd	-	0.002
Sb	4.5	5.5
Zn	Remainder	
Remark	Can be customized according to Customer's request	

Zinc Eaf Dust			
Product List	Origin	Quantity	Specifcation
Zinc EAF Dust	Egypt	5,000MT	Zn : (dry basis at 100 / 105oc) 25% Min - 31.25% Max SiO2 : 1.99% Max Pb : 1.69% Max Al2O3 : 0.43% Max So3 : 2.01% Max Fe : 13.47% Max Na2O : 1.75% Max MgO : 0.48% Max Cl : 4.01% Max TiO2 : 0.12% Max CaO : 1.05% Max Cd : 0.10% Max LOI : 18.14% Max Moisture : 3% Max at 105 Particle Size 0.075mm~6.35mm 90% Min

Lead	
Item	Spec
Pure Lead Ingot	Pb 99.985% Min
Remelted Lead Block	Pb 99% Min

Non Ferrous Metal

Sliver Wires						
Product	Chemical Composition	Specific Gravity	HV	Conductivity	FORM	Usage
AgCu10	Ag-90 / Cu-10	10.3	62	86	RIVET / WIRE / STRIP	Switch / Electric Relay
AgCu20	Ag-80 / Cu-20	10.2	85	82	RIVET / WIRE / STRIP	Switch / Electric Relay
AgCuNi0.5	AgCu-24.5 / Ni-0.5	10.1	115	68	RIVET / WIRE / STRIP	Switch / Electric Relay
AgCu40	Ag-60 / Cu-40	9.8	95	82	RIVET / WIRE / STRIP	Switch / Electric Relay
SY-103	Ag-89 / Mox-11	10.1	110	70	RIVET / WIRE / STRIP	AC/DC Relay, Switch Automotive Application Relay Magnet Switch

Electrical Contact Point						
D ± 0.1	T ± 0.05	d ± 0/0.05	L ± 0.1	i ± 0.1	t	R
2.0	0.5	1.2	2.0	1.5	0.2	5.0
3.0	0.8	1.5	2.3	1.5	0.4	8.0
4.0	1.2	2.0	3.2	2.0	0.6	15.0
5.0	1.2	2.5	2.7	2.5	0.6	25.0
6.0	1.5	3.0	4.5	3.0	0.8	30.0

Magnesium Ingot	
SPEC	MG 99.9 / AZ91D / AM60B / AM50A

Magnesium Scrap	
SPEC	AZ-80 / AZ-91 / AM-50 / AM-60

Ferrous Metal



Ferro Metal Steel Strip



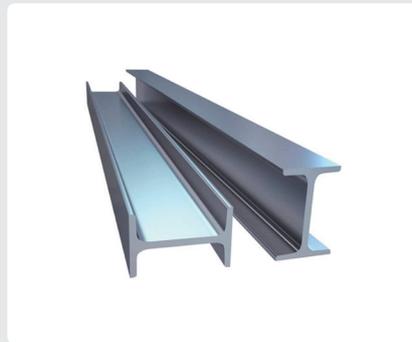
Zinc Coated Steel Tube



Ferro Metal Steel Bar



Ferro Metal Steel Pipe



H-BEAM



Tin Free Steel



Special Steel

Ferrous Metal

Tin Plated Steel	
APPLIED SPECIFICATION	USAGE
KS D 3526 JIS G 3303 ASTM A 624	Cans, Containers, Home applications, Optical cables

Carbon Steel	
APPLICABLE STANDARDS	APPLICABLE MATERIAL
ASME, ASTM, EN, DIN, JIS, KS	A179, A192, A106 Gr.B, A210-A1, A334 Gr.1, A334 Gr.6, A213 T11, A213 T22, A213 T5

Galvanized Steel	
AAPPLIED SPECIFICATION	USAGE
KS D 3506 Remarks : KS D 3053-88 JIS G 3302-98 ASTM A653/A653M-97 EN	Building(Interior/Exterior), Automotive Component, Home Appliances, Painting

H-BEAM					
Product No	Grade	Product No	Grade	Product No	Grade
KS D3503	SS400, SS490	KS D3515	SM400A, SM400B	KS D3866	
JIS G3101	SS400, SS490, SS540	JIS G3106	SM400C, SM490A, SM490B, SM490C, SM490YB, SM520B, SM520C	KS D3866	SHN400, SHN490, SHN520
ASTM	A36, A709 GR36				

Stainless Steel			
Si min.		Si min.	
304	18Cr-8Ni	409	11Cr-0.2Ti-LCN
304L	18Cr-9Ni-LC	430	16Cr-0.05C
304J1	17Cr-8Ni2Cu	430J1L	19Cr-0.5Cu-0.4Nb-LCN
316	18Cr-12Ni-2Mo	439	18Cr-0.4Ti-LCN
316L	18Cr-12Ni-2Mo-LC	445NF	21Cr-0.3Ti-0.4Cu-Si,Nb
301	1Cr18Ni7		
310S	1Cr25Ni20-Si2		

Tin Free Steel				
TEMPER	TEMPER	THICKNESS	WIDTH	THICKNESS TOLERANCE
T-1(T50), T-2(T52), T-2.5(T55), T-3(T57), T-4(T61), T-5(T65)	Beverage Can, Food Can, Oil Can, Paint Can, Aerosol Can, Bottle Cap, Cable & electronic components	0.15- 0.40mm	700- 1030mm	+-0.005mm

Ferrous Metal

Special Steel				
GRADE	JIS	SAE/AISI	DIN/EN	APPLICATIONS
CARBON STEEL	S10C, S20C, S25C, S35C, S45C, S48C, S55C	1006, 1008, 1010, 1018, 1020, 1045, 1060	CK10, CK22, CK35, CK45, CK55, CK60	Automotive and Heavy machinery shafts, Drive Shaft
ALLOY STEEL	SCr415, SCr420, SCr420, SCr420, SCM415, SCM420, SCM435, SCM440, SNCM220, SNCM420, SNCM439, SACM645	5115, 5120, 5140, 1541, 4115, 4120, 4135, 4140, 8620, 4320, 8740, 4340	15Cr3, 20Cr4, 41Cr4, 25CrMo4, 34CrMo4, 42CrMo4, 21NiCrMo2, 36CrNiMo4, 41CrAlMo7	Drive Shaft, Piston Pin Heavy Machinery Shafts
BEARING STEEL	SUJ2	52100	100Cr6	Bearing, Linear Motion Shaft
FREE CUTTING STEEL	SUM22, SUM23, SUM43, SUM24L	1213, 1215, 1144, 12L14	11SMn39m 46S20, 11SMnPb30	Automotive and Heavy machinery shafts
STAINLESS STEEL	SUS303, SUS304, SUS316, SUS410, SUS430, SUS440	303, 304, 316, 410, 430, 440	X10CrNiS 189, X5CrNiMo17122, X12CrMo517, X5CrNi1810	Industrial Machinery and Heavy Machinery Shafts

Special Steel						
Classification	Symbol					
	KS	GB	JIS	DIN	BS	SAE / AISI
High Carbon Steel Strip(JIS G 3311)	S30CM	30	S30CM	Ck30	-	1030
	S35CM	35	S35CM	Ck35	-	1035
	S45CM	45	S45CM	Ck45	-	1045
	S50CM	50	S50CM	Ck50	-	1050
	S55CM	55	S55CM	Ck55	-	1055
	S60CM	60	S60CM	Ck60	CS60	1060
	S65CM	65	S65CM	Ck65	-	-
	S70CM	-	S70CM	-	CS70	1070
	S75CM	-	S75CM	Ck75	-	1074
	S85CM	-	S85CM	-	CS80	1084
	-	-	-	-	-	1552

Chemical



Polycarbonate



POM



Urea Molding Compound



Nylon 66



Master Batch



Nitric Acid



Phosphoric Acid Min 85%



Aluminum Flux



Aluminum Paste



B-Tube Flux



Soda Ash Dense 99.2%



Ferrous Sulphate Monohydrate

Chemical



Soda Ash Light 99.2%



Sodium Nitrate



Hydrogen Peroxide 50%



Potassium Carbonate 99.5%



Caustic Soda Flakes



Polypropylene



Liner Low Density Polyethy

Chemical

Polycarbonate	
STANDARD	USAGE
PC-1070, PC-1100, PC-1150, PC-1220, PC-1150R, PC-1220R, PC-1280R, PC-1070U, PC-1070UR, PC-1100U, PC-1150U, PC-1150UR, PC-1220U, PC-1100S, PC-1220S, PC-1150UL, PC-1000L, PC-1600, MH2	MEDICAL LENS, MISCELLANEOUS GOODS ELECTRICAL ELECTRONICS, AUTOMOBILE, EXTRUDER, Sheet

Pom	
MOLECULAR STRUCTURE	USAGE
$(CH_2-O)_n-(CH_2-CH_2O)_m$	CAR COMPONENT, IT DEVICE, HOUSEHOLD APPLIANCE, BUILDING MATERIAL

Urea Molding Compound		
UREA MOLDING COMPOUND		
Test Item	Unit	Properties(Conditions)
Specific Gravity	g/cm3	1.4-1.5
Temperature	°C	100°C min(1hr)
Tensile Strength	Kgf/mm2	6-8

Nylon 66	
NYLON 66	
TECHNYL® A 216 NATURAL FA - Feed zone 270-275°C - Compression zone 280-285°C - Front zone 285-290°C - Mould temperatures : 60 at 80°C	

Nitric Acid	
ITEMS	SPECIFICATION
HN03	68.0% Min
HN02	100 ppm Max
Cl	4 ppm Max
Fe	4 ppm Max
Ig-Residue	100 ppm Max
Pb	0.1 ppm Max
Arsenic	3 ppm Max
Gravity(20°C, Sp.Gr)	1.405 Min

Chemical

Master Batch						
Chemical Description	Appearance	Decomposition Temperature (°C)	Gas Volume ml/g(STP)	Gas Volume ml/g(IN AIR)	Particle Size(um)	Application
Azodicarbonamide	Orange Yellow Fine Powder	200-210	215-225	290-300	3-22	PVC,PE,EVA, RUBBER ETC
TFC-AZP1619	Orange Yellow Fine Powder	200-210	215-225	290-300	15-20	PVC,PE,EVA, RUBBER ETC
TFC-AZP1012	Orange Yellow Fine Powder	200-210	215-225	290-300	10-14	PVC,PE,EVA, RUBBER ETC
TFC-AZP0810	Orange Yellow Fine Powder	200-210	215-225	290-300	10-14	PVC,PE,EVA, RUBBER ETC
TFC-AZP0607	Orange Yellow Fine Powder	200-210	215-225	290-300	6-9	PVC,PE,EVA, RUBBER ETC
TFC-AZP0305	Orange Yellow Fine Powder	200-210	215-225	290-300	3-6	PVC,PE,EVA, RUBBER ETC
Modified Azodicarbonamide	Orange Yellow Fine Powder	185-200	210-230	280-290	18-20	Chemical Cross-Linked Polyethylene Foams
TFC-ACPE	Orange Yellow Fine Powder	193-197	210-230	280-290	18-20	Chemical Cross-Linked Polyethylene Foams
TFC-ACPE(H)	Orange Yellow Fine Powder	195-200	210-230	280-290	18-20	
TFC-ACPE(HQ)	Orange Yellow Fine Powder	175-180	174-188	260-270	18-20	
N,N'-Dinitrosopentam Ethylenetetraamine	Pale Yellow Fine Powder	167-171	191-200	210-220	-	RUBBER FOAMS
DNPT, DPT 80%	-	-	-	-	-	-
Surface Treated Urea HHBK	Light White Fine Powder	110-115(M.P)	-	-	10-15	Activator of DNPT(DPT)
Modified DPT AND HHBK	Light White Fine Powder	130-170	130-150	-	8-10	EVA, RUBBER FOAMS
TFC-ERB200	Light White Fine Powder	133-137	135-145	-	8-10	EVA, RUBBER FOAMS
TFC-ERB300	Light White Fine Powder	145-150	135-145	-	8-10	EVA, RUBBER FOAMS
TFC-ME6000	Light White Fine Powder	135-145	140-145	165-175	8-10	EVA, RUBBER FOAMS
TFC-ME6001	Light White Fine Powder	150-160	130-145	165-175	8-10	EVA, RUBBER FOAMS

Brazing Flux			
Name Of Goods(Mixed)	Purpose	Name Of Goods(Seperated)	General Mixing Ratio
Aluminum Flux(AF-1)	Al.Radiator Brazing by Showring	No Seperated	AF-1(20-30%) + Water
Aluminum Paste	Pepair of Badly Brazed Area	Aluminum Paste Powder	Powder(70%) + Binder(30%)
		Aluminum Paste Binder	
B-Tube Flux	B-Tube Brazing	B-Tube Aluminum Flux(AF-B)	AF-B(35%) + Binder(65%)
		B-Tube Aluminum Binder	

Soda Ash Dense 99.2%		
TEST ITEMS	STANDARD	RESULTS
NA2CO3(%)	99.2%	99.23%
NaCl(%)	0.7%	0.45%
Fe(%)	0.0035%	0.0011%
Water-fast substance in quality fraction(%)	0.03%	0.011%
Accumulation density(G/ML) (%)	0.9%	1.04%

Chemical

Phosphoric Acid Min 85%		
Items	SPECIFICATION	METHOD
Appearance	Clear solution colorless, odorless	By Visual
Identification	Conform to Standard	-
Purity	85% Min	Alkanide - acid titration
Chlorides(Cl)	0.005% Max	Turbidity with AgNO ₃
Sulphate(SO ₄ -2)	0.002% Max	Turbidity with VaCl ₂
Content of Iron(Fe)	0.0005% Max	Complex spectrophotometric method
Heavy Metal(as Pb)	0.0001% Max	Color comparison with hydrogen sulfide
Arsenic	0.0001% Max	Color comparison with AgDTCC in pyridine
Fluoride(F)	0.001% Max	Fluoride with the ion-selective Electrode
Nitrates	0.0005% Max	Color comparison with indigo carmine
Volatile acids (as Acetic acid)	0.001% Max	Distillate and titrate with NaOH 0,1N
Content of P ₂ O ₅	61% Min	ISO 3706:1976(Quinoline phosphomolybdate gravimetric method)
Content of H ₃ P ₀ 3	0.012% Max	Determine phosphate and then Oxydize phosphite to phosphate by KMnO ₄ / H ₂ SO ₄ and determine total phosphate again

Ferrous Sulphate Monohydrate	
ITEM	INDEX
APPEARANCE	GREYISH WHITE TO SLIGHTLY YELLOW TINGED POWDER
PURITY AS FESO ₄ .H ₂ O 91.0%Min	91.80%
PURITY AS IRON (FE)30%Min	30.18%
LEAD (PB)200PPM Max	17PPM
ARSENIC (AS) 50PPM Max	1PPM
CADMIUM (CD) 10PPM Max	1PPM
PARTICLE SIZE	90% PASS 40 MESH

Soda Ash Light 99.2%		
ANALYSIS ITEM	STANDARD	RESULTS
NA ₂ CO ₃	99.2% Min	99.51%
NaCl	0.7% Max	0.4%
Fe	0.0035% Max	0.0011%
Sulfate	0.05% Max	0.04%
Water Insoluble	0.03% Max	0.01%
Ignition Loss	0.8% Min	0.31%
Bulk Density g/ml	0.56 Min	0.6%

Chemical

Sodium Nitrate		
ITEMS	STANDARD	RESULTS
PURITY(%)	99 Min	99.21%
MOISTURE(%)	1.5 Max	1.32%
WATER INSOLUBLE(%)	0.1 Max	0.01%
NaCl(%)	0.6 Max	0.01%
NaNO ₂ (%)	0.02 Max	0.02%
Na ₂ CO ₃ (%)	0.1 Max	0.01%
IRON(Fe) %	0.005 Max	ND(<0.0001)

Sodium Nitrite		
ITEMS	STANDARD	RESULTS
CONTENT OF SODIUM NITRITE(%)	98 Min	98.5%
CONTENT OF SODIUM NITRITE(%)	0.8%	1.0%
MOISTURE(%)	0.8%	0.8%
WATER INSOLUBLE(%)	0.05%	0.017%
NaCl(%)	0.1 Max	0.075%

Hydrogen Peroxide 50%			
ITEMS	TYPE	RESULTS	TEST METHOD
Appearance	Clear and Colorless Liquid	Clear and Colorless Liquid	Visual
Concentration, % w/w, Min	50	50.89	Redox Titration (Permanganate Titration)
Specific Gravity at 25°C	1.1913	1.1952	Hydrometer Method
Rate of decomposition (at 96°C for 16H) % w/w, Max	5	3.65	Redox Titration (Permanganate Titration)

Caustic Soda Flakes		
PRODUCT	CAUSTIC SODA FLAKES	
ITEMS	INDEX	TEST RESULT
NAOH	≥99.1%	99.2
Na ₂ CO ₃	≤0.5%	0.33
NaCl	≤0.05%	0.04
Fe ₂ O ₃	≤0.005%	0.004
Matter insoluble in water(%)	≤0.005%	0.005
Infusibility	Pass	Pass

Chemical

Potassium Carbonate 99.5%		
PRODUCT	Potassium Carbonate 99.5%	
ITEMS	TYPE	RESULTS
Appearance	White Fine Granular	O.K
Specific Gravity	2.3312-2.4280	2.332
Melting Point	891°C	891°C
Solubility	Soluble in water Insoluble in alcohol	O.K
Molecular Weight	138.2	138.2
Potassium Carbonate(Dry)	99.5% Min	99.62%
Potassium Hydroxide	0.2% Max	0.057%
Potassium Chloride	0.02% Max	N.D(<50ppm)
Potassium Sulfate	0.01% Max	N.D(<90ppm)
Na	0.3% Max	0.1858951%
Ni	0.001% Max	N.D(<3ppm)
Fe	0.0008% Max	0.0000591%
Pb	0.0015% Max	N.D(<10ppm)
Ingniton Loss	0.5% Max	0.009%

Polypropylene			
Property	Test Method	Unit	Result
Specific gravity	ASTM D792	-	0.99
Tensile Strength	ASTM D638	kg/cm ²	248
Elongation	ASTM D638	%	100 ↑
Flexural Strength	ASTM D790	kg/cm ²	325
Flexural Modulus	ASTM D790	kg/cm ²	10,760
Melt Flow Rate	ASTM D1238	g/10Min(230°C/2.16kg)	9.9
Heat Deflection Temperature	ASTM D646	°C(4.6kgf/cm ²)	120
Notched Izod Impact(23°C)	ASTM D256	kg. cm/cm	3
Rockwell Hardness	ASTM D785	R	94
ASH CONTENT	ASTM D5630	%	3.7
XRF	(SPECTRO-XEPOS)	ppm	Cr : 26

Ref : The Above Values Are Only The Representatives Of Natural Color Specimen.
Not For Guarantee

Liner Low Density Polyethy			
	Parameters	Unit	Test Results
1	MFR	g/10 Min(190°C, 5kg)	6.5
2	Ash	%/g	0.05±0.02
3	Tensile Strength	Mpa	14.9±4.0
4	Density	g/cm ³	0.93±0.05

Transformer Materials



Radiator Panel



Cooling Fan



Buchholz Relay



Oil Level Indicator



Valve



Pressure Relief Device



BCT Terminal Box

Transformer Materials

Radiator Panel				
For Medium / Large Transformer				
WIDE	A	B	C	D
300W	FREE	FREE	FREE	300W
380W	FREE	FREE	FREE	380W
450W	FREE	FREE	FREE	450W
520W	FREE	FREE	FREE	520W

Radiator Panel			
For Small Transformer			
WIDE	A	B	C
225W	FREE	FREE	FREE
300W	FREE	FREE	FREE

Cooling Fan										
MODEL	Pole	Hz	RPM	m3/sec	dBA	Ins.	L X W (mm)	Kg	HP	IP
T2106A~AE	8	60	840	2.7	59	F	470X584	26	1PH:1/3 3PH:1/2	55
		50	700	2.2	56					
T2127A~AE	6	60	1150	3.7	63	F	584X584	23		
		50	960	2.9	57					
T2128A~AE	8	60	840	2.5	57	F	470X584	23		
		50	700	2	56					
T2129A~AE	6	60	1150	3.7	63	F	584X584	23		
		50	960	2.9	57					
T2136A~AE	6	60	960	3.3	62	F	470X584	23		
		50	1150	2.7	57					
T2137A~AE	6	60	1150	3.7	63	F	584X584	23		
		50	960	2.9	57					
T2141A~AE	8	60	840	2.5	56	F	470X584	23		
		50	700	2	53					
T2143A~AE	8	60	820	2.7	58	F	470X584	21		
		50	700	2.2	55					
T2148A~AE	6	60	1150	3.7	63	F	584X584	23		
		50	960	2.9	57					
T2151A~AE	8	60	820	2.5	50	F	584X584	24		
		50	690	2.2	47					
T2164A~AE	6	60	1150	3.7	63	F	584X584	23		
		50	960	2.9	57					
T2166A~AE	8	60	820	2.5	50	F	584X584	24		
		50	710	2.2	47					
T2167A~AE	6	60	1150	3.3	62	F	470X584	23		
		50	960	2.7	56					
T2168A~AE	8	60	840	2.5	54	F	470X584	23		
		50	700	2	51					

Transformer Materials

Buchholz Relay					
Model No.	Hole	Size of Relay(Inch)	Volume of Gas(cc)	Oil Velocity(cm/sec)	Weight(kg)
0602	6	2	300	75-140	7.5
0603	6	3	350	90-160	11
0623	4	3	350	100	6.2

Oil Level Indicator	
Model No.	Specification
TJD-4031	with 4-20mA Output
TJD-4041	with 4-20mA Output
TJD-4032	with 4-20mA Output
TJD-4053	for Main Tank
TJD-4054	for OLTC
TJD-4055	for Main Tank
TJD-4056	for OLTC

Valve				
Model No.	Name	Material	Size	Remarks
T1050	Butterfly type	SM20C	M16 X 1.5	4, small
T1056	Butterfly type	SM20C	3"	-
T1057	Butterfly type	SS400	4"	-
T1006	Butterfly type	SM22C	4"	Welding type

Pressure Relief Device	
Model No.	Specification
TJD-0521	with housing
TJD-0545	-

BCT Terminal Box	
Model No.	Specification
TJD-9001	4P & 6P
TJD-9015	12P

Heat exchanger Materials



Finned Tube



Heat Exchanger Tube



Copper Nickel tube



Admiralty Tube



Al-brass Tube



Stainless Steel Tube



Copper Tube



Carbon Steel & Alloy Tube



Plate & Sheet



Forging & Flange

Heat exchanger Materials

Finned Tube

Embedded "G" Type

The strip is embedded under the tension in a groove of the base tube,
This fin tube is applicable to high temperature
- Temo, 150°C

Footed "L" Type

The strip is wound under the tension around a base tube.
- Temo, 180°C

Overlapped footed "LL" Type

Economical alternative for Extruded finned tube
- Temo, 260°C

Knurled "KL" Type

Knurled tubes enhance the bondage of the L-fins
- Temo, 400°C

Copper Nickel Tube

Chemical Composition

ALLOY	Cu	Pb	Fe	Zn	Mn	Ni
C70600	Remainder	Max.0.05	1.0-1.8	Max.1.0	Max.1.0	9.0-11.0
C71500	Remainder	Max.0.05	0.4-1.0	Max.1.0	Max.1.0	29.0-33.0

Copper Nickel Tube

Size & Properties

ALLOY	Available Size(mm)		Mechanical Properties	
	Thickness	Outside Diameter	Y.S(Mpa)	T/S(Mpa)
C70600	0.8-5.0	5-50	Min.105	Min.275
C71500	0.8-5.0	5-50	-	Min.365

Admiralty Tube

Chemical Composition

ALLOY	Cu	Pb	Fe	Zn	Sn	As
C44300	70.0-73.0	Max.0.70	Max.0.060	Remainder	0.90-1.20	0.020-0.060

Admiralty Tube

Size & Properties

ALLOY	Available Size(mm)		Mechanical Properties	
	Thickness	Outside Diameter	Y.S(Mpa)	T/S(Mpa)
C44300	0.8-5.0	5-50	Min.105	Min.310

Heat exchanger Materials

Al-brass Tube						
Chemical Composition						
ALLOY	Cu	Pb	Fe	Zn	Sn	As
C68700	76.0-79.0	Max.0.70	Max.0.060	Remainder	1.80-2.50	0.020-0.060

Al-brass Tube				
Size & Properties				
ALLOY	Available Size(mm)		Mechanical Properties	
	Thickness	Outside Diameter	Y.S(Mpa)	T/S(Mpa)
C68700	0.8-5.0	5-50	Min.125	Min.345

Stainless Steel Tube							
Chemical Composition							
ALLOY	C	Si	Mn	P	S	Cr	Ni
304/304L	Max.0.08	Max.1.00	Max.2.00	Max.0.045	Max.0.030	18.0-2.0	8.0-11.0
316/316L	Max.0.035	Max.1.00	Max.2.00	Max.0.045	Max.0.030	16.0-18.0	10.0-14.0

Stainless Steel Tube				
Size & Properties				
ALLOY	Available Size(mm)		Mechanical Properties	
	Wall Thickness	Outside Diameter	Y.S(Mpa)	T/S(Mpa)
304/304L	0.05-20.0	1.0-219.08	Min.205	Min.515
316/316L	0.05-20.0	1.0-219.08	Min.170	Min.485

Copper tube						
Chemical Composition						
ALLOY	Cu	P	Fe	Zn	Sn	As
C1220T	Min 99.9	0.015-0.040	-	-	-	-

Copper tube				
Size & Properties				
ALLOY	Available Size(mm)		Mechanical Properties	
	Wall Thickness	Outside Diameter	Y.S(Mpa)	T/S(Mpa)
C1220T	0.8-5.0	5-50	-	Min.315

Carbon Steel & Alloy Tube					
Production Available List					
Material	Description				
Carbon	A214	A192	A179	A210	A334
Alloy	A209-Ti	A213-T2, T12, T11, T5, T9, T91		STBA 12, 20, 22, 23, 24, 26	

Heat exchanger Materials

Carbon Steel & Alloy Tube		
Available Size Range		
Outside Diameter	Wall Thickness	Length
6mm to 85mm	0.8mm to 10mm	30 MTR

Plate & Sheet	
Capacity	
-	Description
Casting	1500 ton/month
Capacity Product	Max. Coil 950 ton/month, Max. Plate 250 ton/month
Coil Thickness	Min. 0.3mm
Coil Product Width	Max. 600mm or 400mm
Coil Thickness Deviation	± 0.02mm(depend on tickness)
Plate Thickness	Min. 0.3mm
Plate Size	Max 2000W, Max 6000L mm

Plate & Sheet			
Production Available List			
Alloy	JIS CODE	Alloy	JIS CODE
Oxygen-Free Copper	C1020	Brass	C2600
Tough Pitch Copper	C1100		C2680
Phosphorus Deoxidized Copper	C1201		C2720
	C1220	C2801	
	C1221	C4621	
Red Brass	C2100	Naval Brass	C4640
	C2200	Cupronickel	C7060
Aluminum Bronze	C6300		C7150
	C6130		
	C6140		

Heat exchanger Materials

Plate & Sheet	
Material Grade	
Carbon Steel	ASTM A105, A36, A283-C
Low Tem'p Carbon Steel	ASTM A350LF2/LF3/LF6, A516-60/70
High Yield Carbon Steel	ASTM A694F52/60/65/70
Alloy Steel	ASTM A182F1/11/12/22/5/9/91
Stainless Steel	ASTM A182F304/316/321/310/317 ASTM A240TP304/316
Duplex Steel	ASTM A182F51/53/55/60
Special Grade	Inconel 600/625/825
	Monel
	Hastelloy
	CuNi 70/30, 90/10
	Titanium
Explosive Clad & Weld Overlay	SS, Duplex, Inconel, Cu-Ni, Titanium

Mineral Ores & Sand



Iron Ore



Manganese Ore Low Grade



Manganese Ore High Grade



Copper Ore



Lead Ore



Zinc Ore



Lead+Zinc Ore



Gold Ore



Ilmenite Sand



Quartz Lump

Mineral Ores & Sand

Iron Ore		
Origin	Quantity	Specification
Egypt	50,000MT	Fe 60% Min P 0.20% Max S : 1.20% Max TiO ₂ : 0.15% Max SiO ₂ : 5.00% Max As : 0.08% Max Fe : 0.08% Max Pb : 0.08% Max ZnO : 0.16% Max K ₂ O+Na ₂ O : 0.50% Max Cl : 0.60% Max K ₂ O : 0.05% Max BaO : 1.50% Max LOI : 7.00% Max Moisture (Oven Drying at 105°C) : 3.052% Max Particle Size : 0-10mm or 10-40mm

Manganese Ore Low Grade		
Origin	Quantity	Specification
Egypt	10,000MT	Mn 26% Min SiO ₂ : 20.5% Max Fe : 1.49% S : 0.10% CaO : 14.31% MgO : 0.62% Al ₂ O ₃ : 3.81% P : 0.12% LOI : 18.00% Max Moisture (oven drying at 105°C) : 3.31% Particle Size : 0.0 - 10.0mm 10% Max 10.0mm-150.0mm 90% Max

Manganese Ore High Grade		
Origin	Quantity	Specification
Zambia	5,000MT	Mn : 44% Min (Can be up to 52%) SiO ₂ : 5.00% Max Fe : 5.00% Max P : 0.20% Moisture : 3.00% Max Particle Size : 0-90mm 90% Min 90-120mm 10% Max

Copper Ore		
Origin	Quantity	Specification
Tanzania, Namibia	800MT	Cu : 13% Min Particle Size : 0-10mm

Lead Ore		
Origin	Quantity	Specification
Nigeria	1,000MT	Pb 60% Min Particle Size : 0-10mm / Can be crushed as per request
Morocco	500MT	Pb 30% Min, Up to 60% Particle Size : 0-10mm Can be crushed as per request

Mineral Ores & Sand

Zinc Ore

Origin	Quantity	Specification
Nigeria	1,000MT	Zn 40% Min Particle Size : 0-10mm / Can be crushed as per request

Lead+Zinc Ore

Origin	Quantity	Specification
Morocco	1,000MT	Pb+Zn 30% Min (Pb 5% Min, Zn 5% Min each) Particle Size : 0-10mm / Can be crushed as per request

Gold Ore

Origin	Quantity	Specification
Morocco	200MT	Au 5 ppm Min (Up to 100ppm)

Ilmenite Sand

Origin	Quantity	Specification
Egypt	5,000MT	TiO ₂ : 48.80% Min SiO ₂ : 1.06% Al ₂ O ₃ : 0.35% Total Fe : 35.30% K ₂ O : 0.06% ZrO ₂ : 0.05% P ₂ O ₅ : 0.08% CaO : 0.08% MnO : 0.45% MgO : 1.40% V ₂ O ₅ : 1.44% Cr ₂ O ₂ : 0.20% Th : 0.24% S : 10ppm Moisture : 3% Oven Drying at 105°C Size : 150 Mesh

Quartz Lump

Origin	Quantity	Specification
Egypt	25,000MT	SiO ₂ : 99.80% Min. Al ₂ O ₃ : 0.162% Max Fe ₂ O ₃ : 0.012% Max MgO : 0.003% Max TiO ₂ : 0.018% Max CaO : 0.020% Max LOI : 0.172% Max Moisture (Oven Drying at 105°C) : 0.052% Max Size 5.0mm - Rough Grade 45 Micron - Powder Grade

Ferro Alloys



Ferro Chrome



Ferro Manganese



Ferro Molybdenum



Silicon Manganese



Ferro Silicon



Nodulizer



Inoculant

Ferro Alloys

Ferro Chrome

Specification	Cr	C	S	Si	P	Product Type	Particle Size
Low Carbon	68% Min	0.1% Max	0.03% Max	1.0% Max	0.04% Max	Lump	Lump : 10~50mm (90% Min)
High Carbon	60% Min	7.0-9.0%	0.06% Max	3.0-4.0%	0.05% Max	Powder	Powder : 60 Mesh

Ferro Manganese

Specification	Cr	C	S	Si	P	Product Type	Particle Size
Medium Carbon	78% Min	1.5% Max	0.02% Max	2.0% Max	0.20% Max	Lump	Lump : 10~50mm (90% Min)
High Carbon	73% Min	7.3% Max	0.02% Max	1.2% Max	0.40% Max	Powder	Powder : 60 Mesh

Ferro Molybdenum

Specification	Mo	C	S	Si	P	S	Product Type	Particle Size
-	60% Min	0.1% Max	0.1% Max	2.0% Max	0.06% Max	0.02% Max	Lump Powder	Lump : 10~50mm (90% Min) Powder : 60 Mesh

Silicon Manganese

Specification	Mn	Si	C	P	S	Product Type	Particle Size
SiMn 6517	65% Min	17% Min	2.5% Max	0.3% Max	0.04% Max	Lump	Standard : 10-50mm Can be customized
SiMn 6515	65% Min	15% Min	2.5% Max	0.3% Max	0.04% Max		
SiMn 6014	60% Min	14% Min	3.0% Max	0.3% Max	0.04% Max		

Ferro Silicon

Specification	Si	C	Al	P	S	Product Type	Particle Size
FeSi75	75% Min	0.2% Min	2.0% Max	0.03% Max	0.03% Max	Lump	Standard : 10-50mm Can be customized
FeSi72	72% Min	0.2% Min	2.0% Max	0.03% Max	0.03% Max		
FeSi70	70% Min	0.2% Min	2.0% Max	0.03% Max	0.03% Max		

Nodulizer

Specification	Re	Mg	Si	Ca	Al	Product Type	Particle Size
FeSiMg 1-6	0.5-2.0%	5.0-7.0%	44% Min	2.0-3.0%	1.0% Max	Granule, Lump	5-15mm, 3-25mm, 25-50mm Can be customized
FeSiMg 2-7	1.0-3.0%	6.0-8.0%	44% Min	2.0-3.5%	1.0% Max		
FeSiMg 3-8	2.0-4.0%	7.0-9.0%	44% Min	3.5-4.0%	1.0% Max		
FeSiMg 5-8	4.0-6.0%	7.0-9.0%	44% Min	4.0-5.0%	1.0% Max		
FeSiMg 7-9	6.0-8.0%	8.0-10.0%	44% Min	4.0-5.0%	1.0% Max		

Ferro Alloys

Inoculant							
Specification	Ba	Si	Al	Ca	Al	Product Type	Particle Size
FeSiBa 1-2	1.0-2.0%	68.0-73.0%	1.0-2.0%	1.0-2.0%	Bal.	Granule Size	0.2-0.8mm, 1-3mm, 3-8mm Can be customized
FeSiBa 2-3	2.0-3.0%	70.0-75.0%	1.0-2.0%	1.0-2.0%	Bal.		
FeSiBa 4-6	4.0-6.0%	65.0-70.0%	1.0-2.0%	1.0-2.0%	Bal.		
FeSiBa 6-8	6.0-8.0%	65.0-70.0%	1.0-2.0%	1.0-2.0%	Bal.		
FeSiBa 6-10	6.0-10.0%	65.0-70.0%	1.0-2.0%	1.0-2.0%	Bal.		
FeSiBa 10-15	10.0-15.0%	60.0-68.0%	1.0-2.0%	1.0-2.0%	Bal.		

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