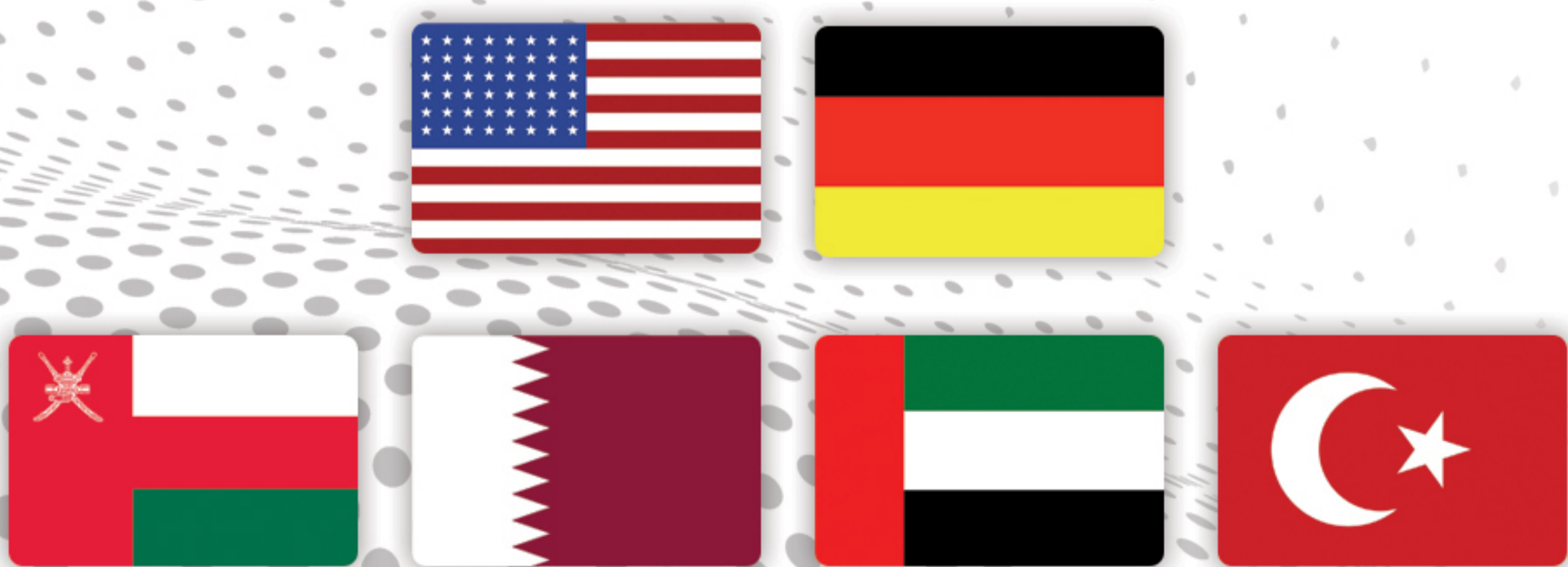




**Global
Energy and Investment
Company LLC**



About Us

EN

We are Engineering, Consultant and International Trading companies that operate in the sector of Steel Industrial, Construction, MSW plant, recycling and waste to power plant.

TR

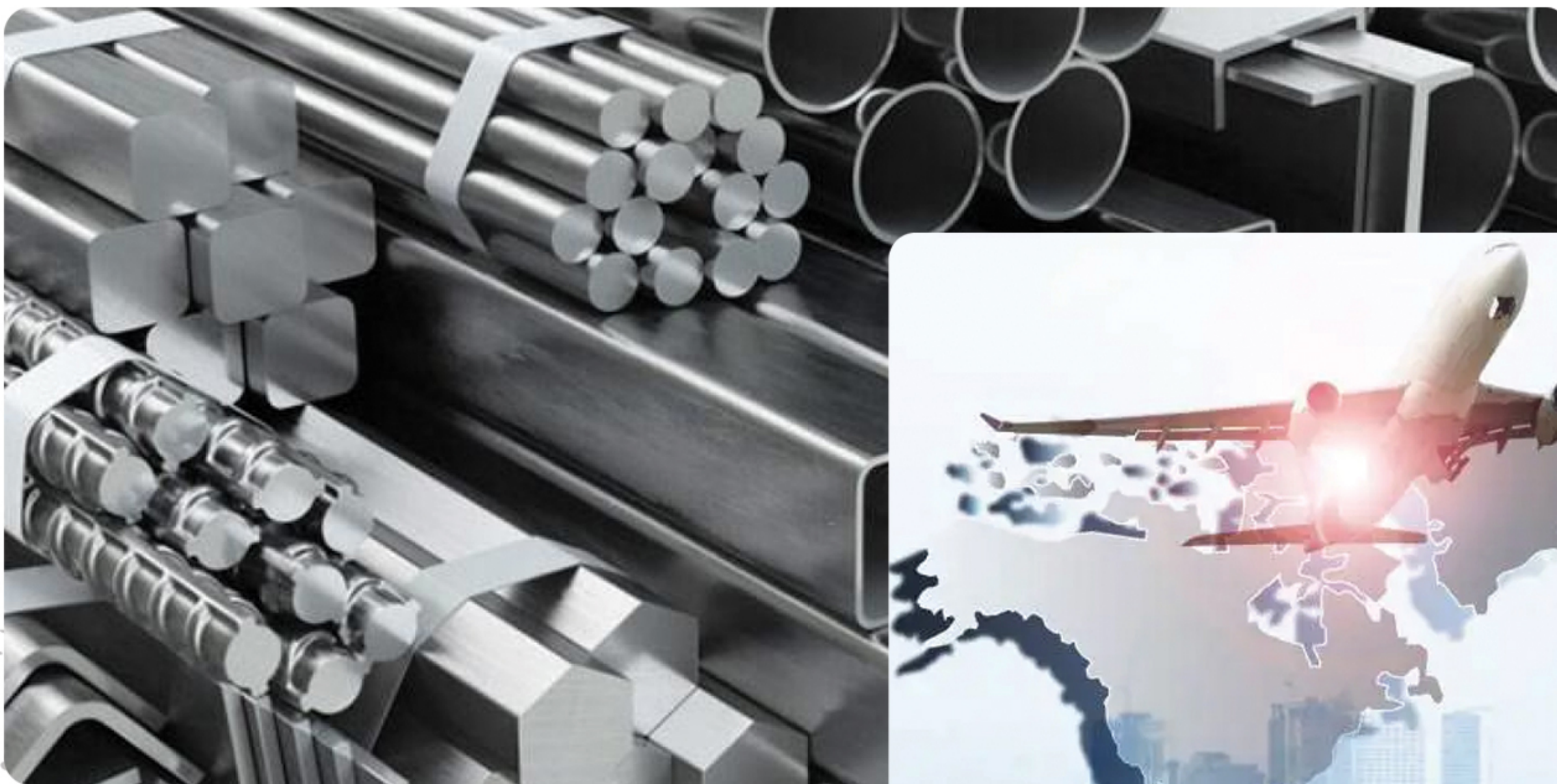
Çelik Sanayi, İnşaat, MSW tesisi, geri dönüşüm ve atıklardan enerji santrali sektöründe faaliyet gösteren Mühendislik, Danışmanlık ve Uluslararası Ticaret şirketiyiz. Şirketlerimiz ağırlıklı olarak Türkiye ve Umman'da faaliyet göstermektedir.

AR

نحن شركات هندسية واستشارية وتجارة دولية تعمل في قطاع صناعة الصلب والبناء ومحطات النفايات الصلبة الصلبة وإعادة التدوير وتحويل النفايات إلى محطات توليد الطاقة.



Global
Energy and Investment
Company LLC



Products

1 Wire Rod



2 Steel Rebar



3 Steel Ingot



4 Galvanized Wire



Wire Rod

Grade	Standard	Mechanical Properties						Chemical Elements (%weight)													
		Yield Stress (MPa)	Tensile Property (MPa)	Elongation (EL%)	Upset Ratio (U%)	Reduction Area (Z%)	Resistivity	C	Si	Mn	P	S	Cr	Ni	Cu	Mo	B	Al	Pb	V	CE
SAE1006	ASTM A 510M	280	376	55	0	75	0	0.06	0.09	0.33	0.009	0.014	0	0	0	0	0	0	0	0	0.14
SAE1008	ASTM A 510M	287	384	50	0	76	0	0.07	0.06	0.31	0.011	0.009	0	0	0	0	0	0	0	0	0.12
SAE1010	ASTM A 510M	310	420	45	0	71	0	0.1232	0.122	0.5863	0.0177	0.0019	0	0	0	0	0	0	0	0	0.22
SAE1018	ASTM A 510M	360	500	40	0	70	0	0.203	0.194	0.572	0.031	0.011	0	0	0	0	0	0	0	0	0.3
SAE1022	ASTM A 510M	390	553	50	74	72	0	0.19	0.23	0.79	0.02	0.02	0	0	0	0	0	0	0	0	0.32
C10C	EN 10263-2	297	400	45	75	70	0	0.08	0.09	0.38	0.003	0.002	0	0	0	0	0	0.027	0	0	0.14
CK45	BS EN 10083-2	0	700	0	0	36	0	0.48	0.21	0.54	0.009	0.003	0.01	0.02	0	0	0	0	0	0	0.57
10B21	ASTM F 2282	0	574	0	74	68	0	0.22	0.12	0.79	0.012	0.002	0.17	0	0	0	0.0031	0.027	0	0	0.39
SWRH67A	JIS G 3506	0	924	0	0	46	0	0.69	0.24	0.55	0.004	0.002	0.02	0	0	0	0	0.037	0	0	0.79
SWRH72B	JIS G 3506	0	1023	0	0	34	0	0.7	0.24	0.64	0.01	0.003	0	0	0	0	0	0.034	0	0	0.81
SWRY11	JIS G 3503	270	383	55	0	77	0	0.06	0.01	0.39	0.009	0.015	0	0	0	0	0	0	0	0	0.13
SG2	DIN 8559	0	518	0	0	80	0	0.072	0.812	1445	0.007	0.016	0	0	0	0	0	0	0	0	0.31
EH12K	ISO 14171	0	562	0	0	79	0	0.11	0.32	172	0.016	0.006	0	0	0	0	0	0	0	0	0.4
EM12K	ISO 14171	0	479	0	0	79	0	0.1	0.27	0.92	0.017	0.003	0	0	0	0	0	0	0	0	0.25
EH14	ISO 14171	0	600	0	0	72	0	0.17	0.08	1.9	0.01	0.006	0	0	0	0	0	0	0	0	0.49

Normal applications	Standard	Standard specifications	Wire Rod
Welding	8559 DIN	Electrode steel and welding wire SWRY11, USD7, S2, S2Si SG 2, S2Mo, ER70S6	5/5 12
Tool steel, tableware	-	Chrome and vanadium steels S32CC5V to 55CC4V	6 5/12
Various types of high carbon steel wires (e.g. Bead wire, Tire cord, PC wire, Spring wire, Saw wire, pre stressed concrete wire and ...)	JIS G 3506	Wire rod Grades SWRH42B, SWRH47B, SWRH55B, SWRH62B, SWRH72B, SWRH77B, SWRH82B	6.5 13
Iron wires, galvanized iron wires, nail, steel mesh, copper plate steel wire, armores wires, tie up wire, tensional, iron bolts ...	ASTM A510M	Low carbon steel wire rod grades SAE1006, SAE1008, SAE1010, SAE1012	7 14
Small nuts and bolts	ASTM A510M	Low carbon quality steel SAE1006 To SAE1022	8 15
			5/8 16.5
			9 17
			5/9
			10
			11



- Tensile testing machine
- Optical microscopies
- Metallographic preparation sample equipment
- Compression test machine (fully Automated upset testing machine)
- Chemical composition analyzer (spectrometer)
- Dimensional inspection instrument
- Hardness testig machine (universal, portable)

Steel Rebar

Grade	Standard	Product Diameter	Mechanical Properties				Chemical Elements Range (%weight)					
			Yield Stress	Tensile Peroperty	Elongation	Cold Bending	C	Si	Mn	P	S	CE
B500B	DIN 488	20	552	643	19	OK	0.18 - 0.2	0.18 - 0.2	0.54 - 0.57	0.004 - 0.005	0.014 - 0.021	0.27 - 0.3
AG420A3	ISIRI 3132	10	500	633	20	OK	0.293 - 0.296	0.18 - 0.184	0.582 - 0.588	0.0088 - 0.0129	0.0055 - 0.02	0.39 - 0.39
A500C	-	10	560	640	20	OK	0.185 - 0.231	0.19 - 0.241	0.624 - 0.65	0.018 - 0.027	0.01 - 0.016	0.29 - 0.34
AJ520A4	ISIRI 3132	10	585	745	20	OK	0.306 - 0.32	0.208 - 0.233	0.729 - 0.746	0.026 - 0.032	0.011 - 0.019	0.43 - 0.44

Classificatio	Grade	Upper Yield stress		Tensile strength R _m	R _m / R _{eh}	Elongation a		
		Min	Max			Min A _{gt}	Min A ₁₀	Min A _s
Plain	S240	240	-	360	1.25	25	18	-
	AJ340	340	-	500		18	15	-
	AJ350	350	455	500		17	-	8
	AJ400	400	-	600		16	12	-
	AJ420	420	545	600		16	-	8
	AJ500	500	-	650		10	8	-
	AJ520	520	675	650		13	-	8

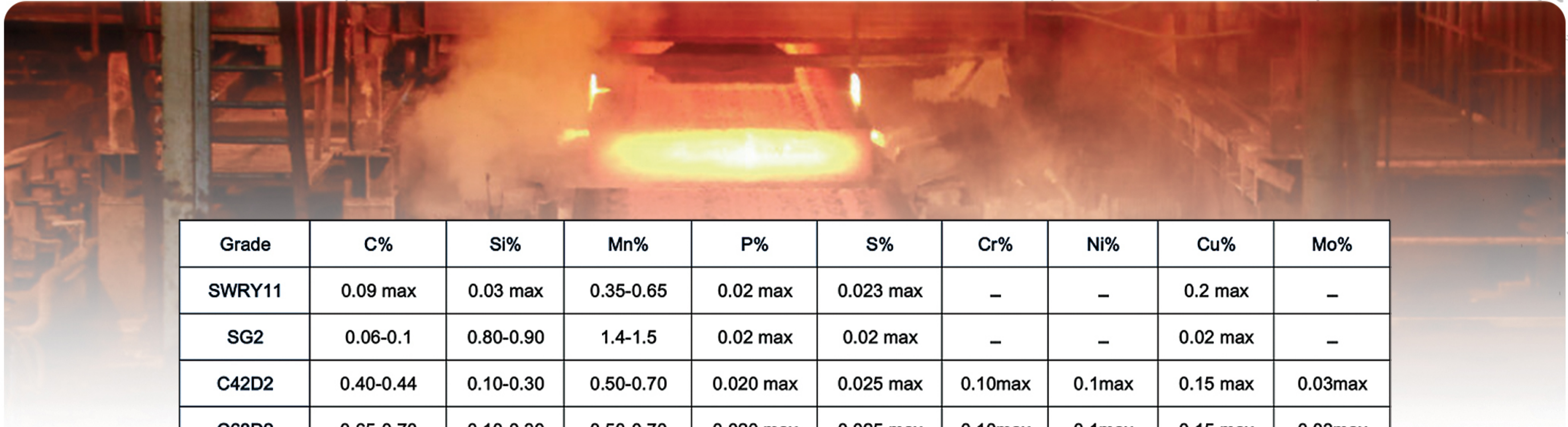
				Size (mm)
Ribbed	Straight length	AIV	(Aj 520)	35-10 mm
Ribbed	Straight length	AIII	(Aj 420)	40-8 mm
Ribbed	Straight length	AII	(Aj 340)	12-8 mm
Ribbed	wire	AII & AIII	(Aj 340 & Aj 420)	16-8 mm
Plain bar	Straight length		(S 240)	50-12 mm

		Size (mm)
Plain Bar	Straight Length	50 - 12 mm
Plain Bar	Wire Rod	16 - 5.5 mm

Bunding Method	Bundle Weight (Kg)	Length (m)	Size (mm)
4 points with steel wire staple	2,000 Kg	12-9	8 to 40

Bunding Method	Bundle Weight (Kg)	Length (m)	Size (mm)
4 points with steel wire staple	2,700 Kg	12-6	12 to 50

Steel Ingot



Grade	C%	Si%	Mn%	P%	S%	Cr%	Ni%	Cu%	Mo%
SWRY11	0.09 max	0.03 max	0.35-0.65	0.02 max	0.023 max	-	-	0.2 max	-
SG2	0.06-0.1	0.80-0.90	1.4-1.5	0.02 max	0.02 max	-	-	0.02 max	-
C42D2	0.40-0.44	0.10-0.30	0.50-0.70	0.020 max	0.025 max	0.10max	0.1max	0.15 max	0.03max
C68D2	0.65-0.70	0.10-0.30	0.50-0.70	0.020 max	0.025 max	0.10max	0.1max	0.15 max	0.03max
C72D2	0.70-0.75	0.10-0.30	0.50-0.70	0.020 max	0.025 max	0.10max	0.10max	0.15 max	0.03max
C82D2	0.80-0.84	0.10-0.30	0.50-0.70	0.020 max	0.025 max	0.10max	0.10max	0.15 max	0.03max
C62D2	0.60-0.64	0.10-0.30	0.50-0.70	0.020 max	0.025 max	0.10max	0.10max	0.15 max	0.03max
C47D2	0.46-0.50	0.10-0.30	0.50-0.70	0.020 max	0.025 max	0.10max	0.10max	0.15 max	0.03max
3SP	0.14-0.22	0.15-0.30	0.40-0.65	0.04 max	0.050 max	-	-	-	-
RST34	0.04-0.10	0.1max	0.2-0.5	0.025max	0.025 max	-	-	-	-
SAE 1006	0.08 max	0.15 max	0.25-0.40	0.030max	0.030 max	-	-	-	-
SAE 1008	0.10 max	0.15 max	0.30-0.50	0.030max	0.030 max	-	-	-	-
SAE 1010	0.09-0.12	0.07-0.12	0.35-0.55	0.01max	0.012max	-	-	-	-
SAE 1022	0.18-0.23	0.15-0.35	0.70-1.00	0.04max	0.05max	0.15 max	0.15 max	0.3 max	-
S2	0.06-0.1	0.07-0.11	0.9-1.1	0.02max	0.02max	-	-	0.03max	-
10B21	0.17-0.21	0.12max	0.75-0.90	0.025max	0.025max	0.10 max	0.10 max	0.20 max	0.04max
10B38	0.35-0.42	0.10-0.35	0.60-0.90	0.040max	0.050max	0.10 max	0.10max	0.20max	0.04max

Structural Steels								
Grade	Chemical Composition (%)							
	C	Mn	Si	S (max)	P (max)	Cr	Mo	Ni
3SP	0.14-0.22	0.40-0.65	0.15-0.30	0.05	0.05	-	-	-
4SP	0.18-0.27	0.40-0.70	0.15-0.30	0.05	0.05	-	-	-
5SP	0.28-0.37	0.50-0.80	0.15-0.30	0.05	0.05	-	-	-
S235jr	0.12-0.17	0.50-0.70	0.15-0.35	0.05	0.05	-	-	-
S355jr	0.12-0.24	≤1.6	≤0.55	0.045	0.045	-	-	-
S355j2	0.12-0.22	≤1.6	≤0.55	0.03	0.03	-	-	-

Industrial Steels									
Grade	Chemical Composition (%)								
	C	Mn	Si	S (max)	P (max)	Cr	Mo	Ni	
CK15	1015	0.12-0.18	0.30-0.60	≤0.40	0.035	0.035	≤0.40	≤0.10	≤0.40
CK40	1040	0.37-0.44	0.50-0.80	≤0.40	0.035	0.035	≤0.40	≤0.10	≤0.40
CK45	1045	0.42-0.50	0.50-0.80	≤0.40	0.035	0.035	≤0.40	≤0.10	≤0.40
41Cr4	5140	0.38-0.45	0.60-0.90	≤0.40	0.025	0.035	0.90-1.20	-	-
16MnCr5	5115	0.14-0.19	1.00-1.30	≤0.40	0.025	0.035	0.80-1.10	-	-
25CrMo4	4130	0.22-0.29	0.60-0.90	≤0.40	0.025	0.035	0.90-1.20	0.15-0.30	-
42CrMo4	4140	0.38-0.45	0.60-0.90	≤0.40	0.025	0.035	0.90-1.20	0.15-0.30	-
30CrNiMo8	4340	0.26-0.34	0.50-0.80	≤0.40	0.025	0.035	1.80-2.20	0.30-0.50	1.80-2.20
18CrNiMo7	4820	0.15-0.21	0.50-0.90	≤0.40	0.025	0.035	1.50-1.80	0.25-0.35	1.80-2.20

Section Size (mm)	Section Size Tolerance	Length (mm)	Length Tolerance	Straightness	Rhomboidity
150*150	+/- 5 mm	2000~12000	+/- 100 mm	10 mm/m	max 4%
130*130				max 100 mm	

Galvanized Wire



Product Features	
Material :	Low-Carbon Steel Wire
Coating :	Hot- dip Galvanized (Zn)
Wire Diameter :	1.00 - 5.90 mm
Volume of Coating :	40 - 300 g/m²
Tensile Strength :	350 - 500 N/mm² 500 - 700 N/mm² 700 - 900 N/mm²
Coil Weight :	100 - 1.000 Kg
Packaging :	Rosette Coil
Applications :	Productio of wire netting , barbed wires , security panels,PVC coated wires, honeycomb wire meshes cages , bucket handles and nails





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