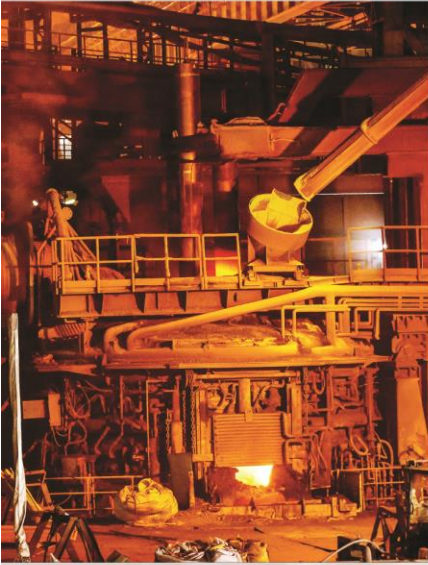




ARFA Iron & Steel COMPANY



About ARFA Iron & Steel Co.

- Annual producer of 0.8 million tons DRI and 0.8 million tons of plane carbon, quality and some alloy steel billets
- Active participation in domestic and international markets With the approach of customer satisfaction



Steel production technology

- Production of molten steel via electric arc furnace (EAF)
- Using more than 90% DRI in metallic charge
- Utilization of ladle furnace (LF), vacuum degassing (VD) and vacuum oxygen decarburization (VOD) technologies for secondary metallurgy
- Utilization of 6 strands continuous casting machine (CCM) with ability of semi-protected casting



Arfa Iron & Steel co.

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Product specifications (Steel Billets)

Physical properties:

Dimension (mm)	Producible lengths (m)	Limit deviation along square side (mm)	Difference between the length of the diagonals (mm)	Mass of one running meter (kg)	Billet straightness tolerance (mm/m)	Billet twist (mm/whole length)
130 × 130	6-12	± 4	Max: 6.5	1303	Max: 6	Max: 20
150 × 150	6-12	± 4.5	Max: 7.5	1735	Max: 6	Max: 20
200 × 200	6-12	± 6	Max: 10	3084	Max: 6	Max: 20

Chemical composition:

Steel grade (DIN/GHOST/ASTM/JIS/BS)	% C	% Mn	% Si	% S (Max)	% P (Max)	% others
31Mn4 / St5sp	0.28-0.35	0.65-0.95	0.15-0.45	0.040	0.035	-
Rst44-2 / St4sp	0.14-0.22	0.40-0.70	0.15-0.35	0.040	0.035	-
Rst37-2 / St3sp	0.10-0.20	0.40-0.65	0.15-0.35	0.040	0.035	-
St52	0.16-0.22	1.25-1.50	0.20-0.50	0.040	0.035	-
St2sp	0.10-0.15	0.40-0.60	0.10-0.20	0.035	0.035	-
Rst34-2	Max: 0.12	Max: 0.50	Max: 0.15	0.020	0.025	-
C10C	0.11-0.14	0.55-0.70	0.11-0.14	0.020	0.025	-
C45	0.42-0.48	0.60-0.90	0.15-0.25	0.045	0.045	-
Ck45	0.42-0.48	0.60-0.90	0.15-0.25	0.025	0.025	-
C60	0.57-0.65	0.60-0.90	Max: 0.40	0.045	0.045	-
Ck60	0.57-0.65	0.60-0.90	Max: 0.40	0.025	0.025	-
SWRH72B	0.69-0.75	0.60-0.70	0.15-0.25	0.025	0.035	-
A615 Grade 60 (G60)	0.28-0.37	1.20-1.60	0.20-0.50	0.040	0.035	-
70Cr2	0.65-0.70	0.75-0.90	0.20-0.30	0.030	0.030	Cr: 0.50-0.70
42CrMo4	0.38-0.45	0.60-0.90	Max: 0.40	0.035	0.035	Mo: 0.15-0.30 Cr: 0.90-1.10
36Mn6	0.34-0.40	1.40-1.65	0.20-0.40	0.040	0.040	-
34CrNiMo6	0.30-0.38	0.50-0.80	Max: 0.40	0.035	0.035	Mo: 0.15-0.30 Ni: 1.30-1.70 Cr: 1.30-1.70
Vanadium containing HSLA grades	Based on customer order					

- ARFA Iron & Steel co. is able to produce all mentioned steel grades with vacuum degassing (VD) treatment. Maximum dissolved hydrogen in VD-Treated steels will be 2 ppm.
- Upon the agreement with the customer, steel grades chemical compositions are negotiable.
- All constructional steel grades with carbon content between 0.08 – 0.80% are producible.
- Upon the agreement with the customers, marking is made by stamping the billet face.