

Specification of Steel Billets

Specifications and Grades

Sr. No	Standard	Application
1	ASTM A 615/A615 M:2020	Structural, Concrete Reinforcement and General use
2	BS 4449:2005+A3:2016	Structural, Concrete Reinforcement and General use
3	KWS GSO ISO 6935 -2/2019	Structural, Concrete Reinforcement and General use

Chemical Composition % (Max)

Billet Size (mm)	C	Si	Mn	P	S
100 x 100	0.40	0.45	1.50	0.05	0.05
125 x 125	0.40	0.45	1.50	0.05	0.05
130 x 130	0.40	0.45	1.50	0.05	0.05

Carbon Equivalent (CE): $CE = C + Mn/6 + (Cr + Mo + V)/5 + (Cu + Ni)/15$

Other Chemical Composition are Possible. Please Contact Sales & Marketing.

Size Range

Cross Section	Weight/Meter	Length
100mm x 100mm	78 Kg/ Meter	3 - 6 Meter (- 0 / + 100)
125mm x 125mm	122 Kg / Meter	3 - 6 Meter (- 0 / + 100)
130mm x 130mm	132 Kg / Meter	3 - 6 Meter (- 0 / + 100)

Physical Parameters

1	Side Dimension tolerance	$\pm 3 \%$
2	Rhomboidity	8 % Max
3	Diagonal Difference	$\leq 12\text{mm}$
4	Corner Radius	4 mm Max
5	Camber (Bend)	$\leq 5\text{mm/m}$ to 50mm Max
6	Angular Twist	$\leq 1^\circ / \text{m}$ to 6° Max
7	Cutting Length	0 / + 100 mm
8	Cutting	Both Ends will be flame Cut
9	Identification:	Heat Number to be punched / handwritten at the cut face of each billet.
10	Surface & Internal Quality:	The Billet Should be free from Harmful Surface Defect like Slag Patches, Longitudinal Cracks, Transverse Cracks, Corner, Joint Billet, Cracks, Scum, Scab, Pinholes, Blow hole, Pipes, Internal Cracks & Deep Oscillation marks. Billet Should be Free from Injurious internal defects that may adversely final products.