

Bainitic Nodular Cast Iron Rolls

Alloy elements of Ni ,Mn, Cr, Mo etc are added to bainitic nodular cast iron rolls for obtaining acicular(bainite-martensite)matrix in its microstructure of these rolls. Its strength and toughnes is higher than Perlitic Nodular Cast Iron Rolls, wearability is also better than latter. These rolls can be produced by static casting or centrifugal casting.

Chemical Element %

Brand	C	Si	Mn	Cr	Ni	Mo
SGB 1	3.00-3.50	1.40-2.40	0.20-0.80	≤0.50	2.50-3.50	0.40-1.00
SGB 2	3.00-3.50	1.20-2.00	0.20-0.80	0.20-1.00	3.00-4.50	0.40-1.00

Properties and Application

Brand	Barrel Hardness(HS)	Tensile Strength(Mpa)	Bending Strength(Mpa)	Application
SGB 1	55-70	≥400	600-800	Small profiled bar, stick, narrow steel finishing mill frame, high speed wire pre-finishing rolling
SGB 2	62-80	≥400	600-800	

