

Alloy Chilled Cast Iron Rolls

Alloy chilled cast iron rolls are one kind of cast iron rolls, which contain almost no free graphite in the matrix of working layer of the barrel. They have hardness and excellent wear resistant, are suitable to finish stands of light bar and wire rolling mills and narrow strip mills. Its microstructure is fine pearlite and carbides.

Chemical Element %:

Brand	C	Si	Mn	Cr	Ni	Mo
CC 1	3.00-3.50	0.20-0.80	0.20-1.00	0.20-0.60	0.50-1.00	0.20-0.60
CC 2	3.00-3.50	0.20-0.80	0.20-1.00	0.30-1.20	1.01-2.00	0.20-0.60
CC 3	3.00-3.50	0.20-0.80	0.20-1.00	0.50-1.50	2.01-3.00	0.20-0.60
CC 4	3.00-3.50	0.20-0.80	0.20-1.00	1.00-2.00	3.01-4.80	0.40-0.80

Properties and Application:

Brand	Barrel Hardness(HS)	Tensile Strength(Mpa)	Bending Strength(Mpa)	Application
CC 1	60-70	≥ 150	300-400	Small profiled bar, stick and narrow steel finishing mill frame
CC 2	60-75	≥ 160	300-400	
CC 3	65-80	≥ 300	500-700	
CC 4	70-85	≥ 300	500-700	

