

Brinell 400 Wear Resistant Steel

Chemical Composition Content %, maximum (ladle analysis)

C	Si	Mn	P	S	Cr	Ni	Mo	B
0.16 - 0.23	0.50 - 0.80	1.60 - 1.70	0.025	0.010 - 0.015	1.20 - 1.50	1.00	0.25 - 0.50	0.005

The steel is grain refined.

Typical Mechanical Properties

Yield Strength R _{p0,2} MPa	Tensile Strength R _m MPa	Elongation A %	Impact Strength, Charpy V 30 J
1100	1250 - 1300	10	-40°C

Hardness Values

Thickness mm	Hardness (HBW)
2 - 8	360 - 440
6 - 80	360 - 440

Typical Applications: Buckets and containers, cutting edges for earth moving machines, wearing parts for concrete mixing plants and wood processing machines, platform structures, and feeders and funnels.

Brinell 500 Wear Resistant Steel

Chemical Composition Content %, maximum (ladle analysis) The steel is grain refined.

C	Si	Mn	P	S	Cr	Ni	Mo	B
0.27 - 0.30	0.50 - 0.80	1.60 - 1.70	0.025	0.010 - 0.015	1.20 - 1.50	1.00	0.25 - 0.50	0.005

The steel is grain refined.

Typical Mechanical Properties

Yield Strength R _{p0,2} MPa	Tensile Strength R _m MPa	Elongation A %	Impact Strength, Charpy V 30 J
1300 - 1400	1600 - 1650	8	-40°C

Hardness Values

Thickness mm	Hardness (HBW)
3 - 20	470 - 540
20.01 - 80	450 - 540

Typical Applications: Buckets and containers, cutting edges for earth moving machines, wearing parts for mining machines; wearing parts for concrete mixing plants and wood processing machines, platform structures, and feeders and funnels.