



FOUNDRY

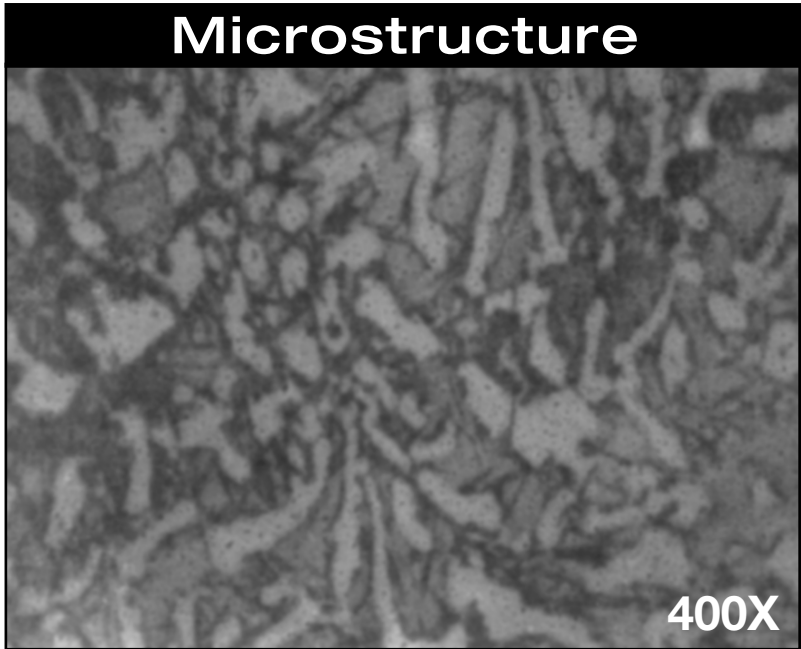
HC28

Mechanical Properties	
Tensile Strength	80-110 KPSI
Brinell Hardness	600-700
Izod AB Impact, ft. lb.	70 Min
Density	.285 lb/in ³
Charpy Impact Energy	120-130 ft. lb
Compression Yield Strength	200-280 KPSI

Chemical Analysis	
Carbon	2.0 - 3.3
Manganese	2% Max
Silicon	1.5 Max
Chromium	23.0 - 30.0
Nickel	2.5 Max
Phosphorus	0.10 Max
Sulfur	0.06 Max
Molybdenum	3.0 Max
Copper	1.2 Max
Iron	Balance

High Chromium Iron is recommended for applications which involve both corrosion and abrasion. This iron is particularly well suited for slurry pump parts and pipe fittings in coal prep operations and coal fired power stations. Although not as abrasion resistant as the nickel-chromium irons, this alloy offers better corrosion resistance and better impact loading.

High chromium iron owes its abrasion resistant properties to the various chromium iron carbides in the microstructure. Variations in the chromium to carbon ration will provide fluctuating matrix structures from pearlite to austenite. This can be tailored to produce the desired structure for a given section thickness.



Samples of each heat are analyzed prior to pouring to insure exact metal in the chemistry. Microstructural analysis are performed randomly and each casting is checked for proper hardness at several intervals during production.



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