

# Abrasion-Resistant Cast Iron ASTM A532 Class I type B

Ni-Cr-LoC is a popular abrasion resistant cast iron in ASTM A532 standard class I type B; it is one type of White Iron.

# Casting Methods in Casting Quality Industrial:

- Sand Casting
- Shell Casting

#### Equivalent Abrasion-Resistant Cast Iron Grade:

EN 12513 Grade EN-GJN-HB480 EN5.5602 DIN 1695 Grade G-X 260 NiCr4 2 (DIN 0.9620)

**Reference Casting Standards:** 

ASTM A532 Standard Specification for Abrasion-Resistant Cast Irons

ASTM A532 Class I type B Designation Ni-Cr-LoC chemistry requirement:

Standard	ASTM A532	
Class	I	
Туре	В	
Designation	Ni-Cr-LC	
Carbon %	2.4-3.0	
Manganese %	2.0 max	
Silicon %	0.8 max	
Nickel %	3.3-5.0	
Chromium %	1.4-4.0	
Molybdenum %	1.0 max	
Copper %		
Phosphorus %	0.30 max	
Sulfur %	0.15 max	



## ASTM A532 Class I type B Designation Ni-Cr-LoC Mechanical Property:

No requirement about tensile/yield and elongation. www.castingquality.com

### ASTM A532 Class I type B Designation Ni-Cr-LoC Hardness Requirements:

Standard

ASTM A532

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Class	Ι	
Туре	В	
Designation	Ni-Cr-LoC	
As Cast or As cast	550HB/53LOCR/600HV	
and Stress relieved		
Hardened or	Level 1	600HB/56HRC/660HV
Hardened and	Level 2	650HB/59HRC/715HV w
Stress Relieved		
Chill Cast, min	600HB/56LOC/660HV	
Softened, max	-	

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# ASTM A532 Class I type B Designation Ni-Cr-LoC Heat treatment process

It will be up to the hardness requirement: as Cast, as Cast and Stress relieved, Hardened, Hardened and stress relieved, Softened for machining. any casting quality.com

# ASTM A532 Class I type B Designation Ni-Cr-LoC Typical Casting Application:

- Pump industry.
- Mining industry, crusher liner, chute liner.
- Oil or recycling.

# What is White Iron?

When white iron solidifies, virtually all the carbon appears in the form of carbides, White irons are hard and brittle, and they break with a white fracture. These irons are usually alloyed with Chromium and Nickel. The hardness is in the range of 500 to 600 BHN, the specific alloying that is required in a function of section size and application; there must be coordination between designer and foundry. These irons exhibit outstanding wear resistance and are used extensively in the mining industry for ball mill shell liners, balls, impellers, and slurry pumps. www.castingquality.com