

Nihard 4

Material Data Sheet

Wilfley slurry pumps and parts are available in Nihard 4 hard iron alloy.

Nihard 4 offers high material hardness for excellent wear in primarily abrasive applications. Wilfley Nihard 4 is similar to ASTM specification A532 class I, type D. Through processing nickel-chrome carbides are interspersed in a hardened martensitic matrix to enhance wear properties.

Mechanical Properties

Specification	Hardness HBN (Typical)	Tensile Strength	PH Range
A532, class I, type D	600-650	60,000 psi	5-8

Chemical Composition (weight %)

C 2.5-3.6%	P 0.10 max
Cr 7-11	S 0.15 max
Ni 4.5-7.0	Si 2.0 max
Mo 1.5 max	Mn 2.0 max
	Fe balance