

Alloy 20 Balls

General Information

Alloy 20, is a nickel-iron-chromium austenitic alloy that was developed for maximum resistance to acid attack, specifically sulfuric acid. This super alloy has excellent resistance to general corrosion, pitting, and crevice corrosion in chemicals containing chlorides and sulfuric, phosphoric, and nitric acids. It also contains niobium for stabilization against sensitization and resultant inter granular corrosion.

Applications

Special Bearings, Pumps and Valves, in all applications where high wear, corrosion and temperature resistance are demanded.

Chemical Composition

Ni	32.00-38.00%
Fe	Balance
Cr	19.0-21.0%
Cu	3.0-4.0%
Mo	2.0-3.0%
Nb	8xC-1.0% max
C	.07% max
Mn	2.0% max
P	.045% max
S	.035% max
Si	1.0% max

Mechanical Properties

Tensile Min.	80 ksi
Yield Min. (.2% offset)	35 ksi
Elongation Min.	30%
Reduction of Area Min.	50%

Size Range 3/64" - 4" max

Standard Grades Available

28, 40, 100, 200