

# High Carbon Chrome Alloy

## General Information

This is an oil hardened steel, which is universally used by the ball and roller bearing industry. The steel has high hardness and good resistance to deformation and excellent wear resistance. Usually vacuum degassed and uniformly through hardened in atmospherically controlled electric furnaces.

## International Equivalents

AISI 52100, SUJ2 ASTM 100CR6, W 1.3505

## Composition

C	0.95 - 1.1%
Cr	1.30 - 1.60%
Mn	0.25 - 0.45%
Si	0.15 - 0.30%
P	0.025% Max
S	0.025% Max

## Hardness

HRc	60-67
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## Mechanical Properties

Tensile Strength	325,000 psi
Yield Strength	295,000 psi
Density	0.283 lbs/cu.in

**Size Range** - 0.635mm (0.025") to 101.60mm (4")

## Standard Grades Available

5, 10, 25, 100, 500