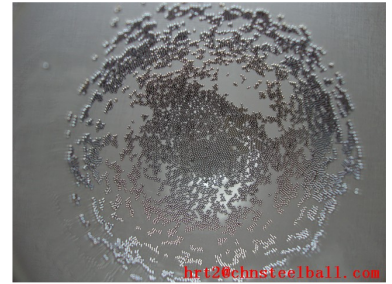


Chrome Steel Miniature Ball Bearings

Precision-engineered miniature steel balls are crafted from chrome steel. These balls offer hardness, wear resistance and dimensional accuracy for bearings, valves, pumps and precision instruments.



Overview

Precision Chrome Steel Miniature Balls

These high-precision miniature steel balls are crafted from AISI52100 chrome steel, offering exceptional hardness and superior wear resistance. Engineered for demanding environments, they provide high load-bearing capacity and excellent surface quality. They are suitable for a wide range of precision applications, including bearings, linear motion guides, and automotive components.

Technical Specifications

Certifications

ISO9001 • TS16949 • ISO14001

Material Grade	AISI52100, SUJ-2, 100Cr6
Size Range	0.5mm - 3mm
Grade	G5 - G1000
Hardness	66 HRC

Chemical Composition

Chemical Composition

Element	Range
Chromium	1.30% - 1.60%
Carbon	0.98% - 1.10%
Manganese	0.25% - 0.45%
Silicon	0.15% - 0.35%
Phosphorous	0.025% MAX
Sulphur	0.025% MAX

Mechanical Properties

Key Mechanical Properties

325000 PSI

Tensile Strength

295000 PSI

Yield Strength

29500000 PSI

Modulus of Elasticity

Physical Characteristics

- Corrosion Resistance: No
- Magnetic: Yes
- Density: 0.283 LBS/CU.IN

Applications

Typical Applications

Bearing, Ball Screw, Linear Motion Guide, Automotive Parts, Chemical Processing, Food Processing, Ink/Paint Grinding, Caster Wheel, Bicycle/Car Parts