

Iron

High Purity Metal

Characteristics

- ✓ High strength
- ✓ High hardness
- ✓ Wear resistance
- ✓ Good Tensile Strength
- ✓ Low toughness
- ✓ Ductile and malleable
- ✓ Good conductivity

Quick Facts

Molecular Formula	:	Fe
Molecular Weight	:	55.85 g/mol
Density	:	7.8 g/cm ³
Melting Point	:	1535 °C
Boiling Point	:	2750 °C
Thermal Conductivity	:	0.0804 W/(mK)
Thermal Expansion	:	(25 °C) 11.8 μm·m ⁻¹ ·K ⁻¹
Young's Modulus	:	211GPa
Specific Heat	:	0.106 Cal/g/K @ 25 °C
Vickers Hardness	:	608GPa

Purity : 99.9%

Iron is the most commonly used metal in the world. Iron is a chemical element with symbol Fe and atomic number 26. It is a metal that belongs to the first transition series and group 8 of the periodic table. It has a melting point of 1,535°C, a density of 7.86 g/cc, and a vapor pressure of 10-4 Torr at 1,180°C. Iron is found in a vast array of products including tools, automobiles, and machinery.

Benefits

- ✓ Used in bearings in rotating machinery
- ✓ Used primarily for races and balls or rollers of rolling-element (anti-friction) bearings
- ✓ Used in ball screws, valves
- ✓ Used in pipes
- ✓ Automotive parts like cylinder heads
- ✓ Cylinder blocks and gearbox cases
- ✓ Semiconductors, magnetic storage media
- ✓ Fuel cells

High Purity

Iron

Available in:

Pieces | Rods | Shots | Chips | Pellets | Wires | Ingots | Bars | Granules



202ICE4589C



19ZAZGO1274G



202ICE4588M

ISO 9001:2015
CERTIFIED COMPANY



26
Fe
55.845

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