

# Chromium

High Purity Metal

## Characteristics

- ✓ Anti-corrosive
- ✓ Excellent high-temperature
- ✓ Strong oxidative properties
- ✓ Self-healing properties
- ✓ Good conductivity

## Quick Facts

Molecular Formula	:	Cr
Molecular Weight	:	52 g/mol
Density	:	7.18g/cm <sup>3</sup>
Melting Point	:	1857°C
Boiling Point	:	2672 °C
Thermal Conductivity	:	0.939 W/cm/K @ 298.2 K
Electrical Resistivity	:	12.9 microhm-cm @ 0 °C
Thermal Expansion	:	4.9 μmm-1K-1 (25 °C)
Electronegativity	:	1.6 Paulings

**Purity : 99.9%**

**Chromium** is a chemical element with Cr as its symbol. It belongs to group 6, periodic number 4 of the periodic table. Its atomic number is 24. It is a steely-grey, lustrous, hard and brittle transition metal. Chromium is the main additive in stainless steel, to which it adds anti-corrosive properties. Chromium is also highly valued as a metal that is able to be highly polished while resisting tarnishing. Chromium metal is of high value for its high corrosion resistance and hardness.

## Benefits

- ✓ In metal ceramics
- ✓ In chrome plating
- ✓ As dyes and paints
- ✓ To produce synthetic rubies
- ✓ In alloys, e.g., stainless steel
- ✓ To manufacture molds for the firing of bricks
- ✓ In metallurgy to provide corrosion resistance and a shiny finish
- ✓ High grade stainless steels
- ✓ Nuclear power generation facilities
- ✓ Food processing operations and critical industries.

## High Purity Chromium

Available in:

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



202ICE4588C



19ZAZG01274G



202ICE4588M

ISO 9001:2015  
CERTIFIED COMPANY



24  
**Cr**  
51.996

### INTELLIGENT MATERIALS PVT LTD

Derabassi  
Punjab (140507)  
INDIA

+91 9779 550077, 9779238252

### NANOSHEL UK LIMITED

Chapel House,  
Chapel St Cheshire,  
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

### NANOSHEL LLC

3422 Old Capitol Suit  
1305 Wilmington DE - 19808  
United States

+1 646 470 4911

