

## Alloy 602 CA

| Chemical Composition | Cr   | Ni  | Mo | Cu | W | Al   | Ti   | C    | Fe | Y    | Mn   | Si   | P | Z    |
|----------------------|------|-----|----|----|---|------|------|------|----|------|------|------|---|------|
| % Values (minimum)   | 24.0 | -   |    |    |   | 1.80 | 0.10 | 0.15 |    | 0.05 | -    | -    |   | 0.01 |
| % Values (Maximum)   | 26.0 | Bal |    |    |   | 2.40 | 0.20 | 0.25 |    | 0.12 | 0.15 | 0.50 |   | 0.01 |

### APPLICATIONS

Rotary kiln and shaft  
 Furnace rollers / Oven Parts  
 Nozzles  
 Pipe supports  
 Components in the exhaust gas purifying catalyst of automobiles  
 Reformers in the chemical and petrochemical industry  
 Hydrogen production Heater plugs

### DESCRIPTION

2.4633 is a high carbon chromium-iron-nickel alloy which also contains additives of micro alloy elements titanium, zirconium and aluminium, and yttrium. Alloy 602CA is characterized by excellent high temperature creep properties, excellent fatigue resistance in the HCF and LCF mode and extraordinary oxidation resistance at high temperatures and under cyclic conditions.

### CORROSION RESISTANCE

This alloy is characterized by excellent high-temperature creep properties; and Exceptional resistance to oxidation at higher temperatures, even under cyclic conditions. It also possesses very good high temperature corrosion resistance in carburizing and oxidizing/chlorinating media as well as under metal dusting conditions.

