



# CEWELD NiCrBSi 6 Tig (Colmonoy 6)

**TYPE** Nickel based Tig filler metal for hardfacing and overlay applications.

**APPLICATIONS** NiCrBSi 6 TIG offers outstanding metallurgical and physical properties making them ideally suited to solving wear mechanisms such as abrasion, erosion, corrosion and high-temperatures encountered in service.

**PROPERTIES** This nickel based alloy offers superior wear protection, retaining its hardness up to 600°C (1000°F) with significant resistance to oxidation.

**CLASSIFICATION** AWS A 5.21: ERNiCr-C

**SUITABLE FOR** Aircraft gas turbines, steam turbine powerplants, turbochargers and valves in reciprocating engines, prosthetic devices, heat treating equipment, pollution control equipment, coal gasification and liquefaction systems, and components in pulp and paper mills.

**APPROVALS**

**WELDING POSITIONS**



**TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)**

C	Ni	Cr	B	Si	Fe
0.7	Rem.	14	3	4.25	4

**MECHANICAL PROPERTIES**

Heat Treatment	R <sub>P0.2</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>5</sub> (%)	Hardness
As Welded				55.5 HRc

**REDRYING** Not required

**GAS ACC. EN ISO 14175** I1