



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 _{P0.2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness
As Welded				55.5 HRc

REDRYING Not required

GAS ACC. EN ISO 14175 I1