



CEWELD NiCrBSi 4 Tig (Colmony 4)

TYPE Nickel based Tig filler metal for hardfacing and overlay applications.(UNS N99644)

APPLICATIONS CEWELD NiCrBSi 4 Tig (Colmony 4) 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.
CEWELD NiCrBSi 4 Tig (Colmony 4) is a nickel-base alloy containing chromium boride. It is recommended for hard surfacing parts to resist wear, heat, corrosion and galling. Deposits, which have only moderate hardness (Rockwell C 35-45), can be machined with carbide tooling. Is highly resistant to semi-molten glass. It is normally used in the as-cast condition.

PROPERTIES CEWELD NiCrBSi 4 Tig (Colmony 4) offers superior wear protection, retaining its hardness up to 300°C (600°F) with significant resistance to oxidation. A good combination of impact resistance and wear resistance. It is resistant to atmospheric, salt water, and salt spray corrosion, and has excellent oxidation resistance up to its melting range. It retains satisfactory performance in many organic acids, but high corrosion rates are observed in hot, strong inorganic acids.

CLASSIFICATION AWS A 5.21: ERNiCr-A

SUITABLE FOR **UNS N99644, DELORO 40 Alloy, Colmony 4**
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 No Approvals Found

WELDING POSITIONS

TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	C	Ni	Cr	B	Si	Fe
	0.4	Rem.	10	2.4	2.1	2.8

ALL WELD MECHANICAL PROPERTIES	Heat Treatment	R _{P0,2} MPa	R _m MPa	A5 (%)	Hardness Rockwell C
	As Welded /				Avg. 40

REDRYING TEMPERATURE Not required

GAS ACCORDING EN 14175 I1