

CEWELD DUR 25 Tig

TYPE Cobalt based Tig filler metal for CoCrWNi deposits.

APPLICATIONS Dur 25 combines properties which make it suitable for a number of component applications in the aerospace industry, including parts in established military and commercial gas turbine engines. In modern engines, it has largely been replaced by newer materials such as 188 alloy, and, most recently, 230® alloy, which possess improved properties. Another area of significant usage for Dur 25 is as a bearing material, for both balls and races.

PROPERTIES Dur 25 (UNS R30605) is a cobalt-nickel- chromium-tungsten alloy that combines excellent high-temperature strength with good resistance to oxidizing environments up to 1800°F (980°C) for prolonged exposures, and excellent resistance to sulfidation. It can be fabricated and formed by conventional techniques, and has been used for cast components. Other attractive features include excellent resistance to metal galling.

CLASSIFICATION EN ISO 14700: ~E Co1

SUITABLE FOR Wear problems at high temperatures in case high strength is required.

APPROVALS

WELDING POSITIONS



TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

C	Ni	Cr	W	Mo	Co	Mn	Si	Fe
0.1	10	20	15	0.5	Rem.	1.5	0.3	1.5

MECHANICAL PROPERTIES

Heat Treatment	R _{P0,2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness
As Welded	825	925	1.5	35 HRc

REDRYING Not required

GAS ACC. EN ISO 14175 11