CEWELD DUR 6 Tig

certilas® THE FILLER METAL SPECIALIST

TYPE

Cobalt-based thermo shock resistant alloy for overlay applications.

APPLICATIONS

Steam-valves, high temperature liquid pumps, hot cutting tools, exhaust valves.

PROPERTIES

Outstanding alloy against abrasion, thermo-shock and corrosion combined with high temperatures. The weld deposit can be machined with tungsten tool tips and by grinding. The hardness of the weld deposit will degrees 16% at 300°C and about 30% at 600°C. The weld deposit is high heat resistant up to 900°C. DUR 6 offers a low coefficient of friction of 0.12 and exceptional resistance to galling. It has cavitation-erosion resistance ten times that of 304 stainless steel, DUR 6 can be used to protect bearing surfaces in non-lubricating conditions due to its resistance to metal-to-metal wear.

CLASSIFICATION

AWS	A 5.21: ERCoCr-A
EN ISO	14700: S Co2
DIN	8555: TIG 20-GZ-40-CSTZ
F-nr	71

SUITABLE FOR

Stellite 6 alloy for, Steam-valves, high temperature liquid pumps, hot cutting tools, exhaust valves and seats

APPROVALS

No Approvals Found

WELDING POSITIONS

TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

C	Si	Mn	Cr	Fe	W	Co
1.1	1	0.6	28	2.5	5	Rem.

ALL WELD MECHANICAL PROPERTIES

Heat Treatment	$R_{P0,2}$ MPa	Rm MPa	A5 (%)		Hardness Rockwell C
As Welded /					Avg. 40

REDRYING TEMPERATURE

Not required

GAS ACCORDING EN 14175

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	Type	KG/unit	EANCode
DUR 6 TIG 2,4 X 1000MM	Tube	5	8720663402271
DUR 6 TIG 3,2 X 1000MM	Tube	5	8720663402288
DUR 6 TIG 4,0 X 1000MM	Tube	5	8720663402295
DUR 6 TIG 5,0 X 1000MM	Tube	5	8720663402301
DUR 6 TIG 6,4 X 1000MM	Tube	5	8720663402318