CEWELD AA DUR 12

certilas® THE FILLER METAL SPECIALIST

TYPE

Cobalt-based thermo shock resistant alloy for overlay applications. (Stellite 12)

APPLICATIONS

Steam-valves, high temperature liquid pumps, hot cutting tools, cutting tools for plastic, wood and paper as well as high stressed sealings and sliding surfaces. alloy with high temperature and abrasion resistance, thermo shock resistant and impact resistant, hardfacing valves, seats, pumps, knives, plastic recycling crushers etc.

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 degreas 20% at 600°C and has a nominal hardness of 49-53 HRc at room temperature. The weld deposit is high heat resistant up to 900°C. Dur 12 offers a low coefficient of friction of and exceptional resistance to galling. It has cavitation-erosion resistance ten times that of 304 stainless steel, Dur 12 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-B
EN ISO	14700: T Co2
DIN	8555: MSG 20-GF-50-CTZ

SUITABLE FOR

46-48 HRc, Stellite 12 alloy with high temperature and abrasion resistance, thermo shock resistant and impact resistant, hardfacing valves, seats, pumps, knives, plastic recycling crushers etc.

APPROVALS

No Approvals Found

WELDING POSITIONS

TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)

C	Si	Cr	W	Co
1.75	1.2	29	9	Rem.

ALL WELD MECHANICAL PROPERTIES

Heat Treatment	$R_{P0,2}$ MPa	Rm MPa	A5 (%)		Hardness Rockwell C
As Welded /					Avg. 50

REDRYING TEMPERATURE

140°C / 24 hr

GAS ACCORDING EN 14175

M13

CEWELD AA DUR 12

certilas® THE FILLER METAL SPECIALIST

AA DUR 12 1,2MM

Type	KG/unit	EANCode
BS-300	15	8720663402325

AA DUR 12 1,6MM

Type	KG/unit	EANCode
BS-300	15	8720663402332