



# CEWELD AA DUR 12

**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 decrease 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 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**

**WELDING POSITIONS**



**TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)**

C	Si	Cr	W	Co
1.75	1.2	29	9	Rem.

**MECHANICAL PROPERTIES**

Heat Treatment	R <sub>p0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>5</sub> (%)	Hardness
As Welded				50 HRc

**REDRYING** 140°C / 24 hr

**HARDNESS HRC** @ 20°C: 50HRc, @ 300°C: 46HRc, @600°C: 40HRc

**GAS ACC. EN ISO 14175** M13



# CEWELD AA DUR 12

AA DUR 12 1,2MM

Packaging	KG/unit	EanCode
BS-300	15	8720663402325

AA DUR 12 1,6MM

Packaging	KG/unit	EanCode
BS-300	15	8720663402332