



# CEWELD AA DUR 12

**TYPE** Cobalt-based thermo shock resistant alloy for overlay applications.

**ANWENDUNGEN** 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.

**EIGENSCHAFTEN** 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.

**KLASSIFIKATION** AWS A 5.21: ERCoCr-B  
EN ISO 14700: T Co2  
DIN 8555: MSG 20-GF-50-CTZ

**GEEIGNET FÜR** **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.

**ZULASSUNGEN**

**SCHWEISSPOSITIONEN**



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

C	Si	Cr	W	Co
1.75	1.2	29	9	Rem.

**MECHANISCHE GÜTEWERTE**

Heat Treatment	R <sub>P0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A5 (%)	Hardness
As Welded				50 HRc

**RÜCKTROCKNUNG** 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