



# CEWELD DUR 6 Tig

**TYPE** Cobalt-based thermo shock resistant alloy for overlay applications. (Stellite 6)

**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     |
| F-nr   | 71               |

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

**APPROVALS**

**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. |

**MECHANICAL PROPERTIES**

| Heat Treatment | R <sub>P0,2</sub> (MPa) | R <sub>m</sub> (MPa) | A <sub>5</sub> (%) | Hardness |
|----------------|-------------------------|----------------------|--------------------|----------|
| As Welded      |                         |                      |                    | 40 HRc   |

**REDRYING** Not required

**GAS ACC. EN ISO 14175** I1



# CEWELD DUR 6 Tig

|                        |           |         |               |
|------------------------|-----------|---------|---------------|
| DUR 6 TIG 2,4 X 1000MM | Packaging | KG/unit | EanCode       |
|                        | Tube      | 5       | 8720663402271 |
| DUR 6 TIG 3,2 X 1000MM | Packaging | KG/unit | EanCode       |
|                        | Tube      | 5       | 8720663402288 |
| DUR 6 TIG 4,0 X 1000MM | Packaging | KG/unit | EanCode       |
|                        | Tube      | 5       | 8720663402295 |
| DUR 6 TIG 5,0 X 1000MM | Packaging | KG/unit | EanCode       |
|                        | Tube      | 5       | 8720663402301 |
| DUR 6 TIG 6,4 X 1000MM | Packaging | KG/unit | EanCode       |
|                        | Tube      | 5       | 8720663402318 |