

Technical data sheet

EN220724GB

Laser cladding cored wire
STELLOY 25-LD**CLASSIFICATION**

EN 14700: T Z Co

DESCRIPTION

- Cobalt based metal cored wire developed for laser cladding
- Produces attractive weld bead appearance with minimal silicate island, with low fume emissions and spatter
- Can also be used for TIG or plasma welding
- The toughness of the deposit allows excellent resistance to thermal cycles and shocks
- Exceptional creep resistance, combined with good corrosion resistance
- The Co-Cr-W-Ni alloy deposit benefits from stable hardness at high temperatures
- Low carbon content, easy to apply due to its low cracking tendency

APPLICATIONS

STELLOY 25-LD is used for hardfacing parts undergoing metal-to-metal wear at temperatures up to 800 °C

Examples

For use on parts such as extrusion dies, nozzles, pump shafts, etc.

TYPICAL ALL-WELD METAL ANALYSIS

C	Mn	Si	Cr	Ni	W	Fe	Co
0.15	1.5	1.0	20.0	10.0	14.0	4.0	Bal.

Structure: austenitic matrix with dispersed carbides or intermetallic component precipitates

TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Hardness:

Three-layer deposit on mild steel:

As welded: 210 HB
Work hardened: 38 - 42 HRC

High temperature hardness:

20 °C	400 °C	600 °C	800 °C
210 HB	145 HB	130 HB	120 HB

PACKAGING

Diameter	1.2 - 1.6 mm
Standard packaging (EN ISO 544)	BS 300 spool
Weight	15 kg

Other packaging and other diameters: please consult us