Technical data sheet EN311025GB	Laser cladding cored wire # HARDFACE NICARBW-LD	Welding Alloys

CLASSIFICATION

EN 14700: T Ni20

DESCRIPTION

- Tungsten carbide metal cored wire developed for laser cladding
- The wire contains around 50% tungsten carbides, depending on the diameter, and provides a special Ni-B-Si matrix deposit
- Optimised combination of toughness and wear resistance due to the heterogeneous weld metal composed of tungsten carbides distributed in a hard and very tough matrix
- Produces attractive weld bead appearance with minimal silicate island, with low fume emissions and spatter
- The deposit is suitable for hardfacing components subject to extreme abrasion combined with corrosion

APPLICATIONS

HARDFACE NICARBW-LD is used for hardfacing components subject to wear by earth, sand and abrasives

Examples

Bucket teeth, wood chipper spouts, scrapper blades, crusher bars, components for agriculture, conveyor screws, trenchers, drilling tricones, etc.

TYPICAL ALL-WELD METAL ANALYSIS

Composite deposit containing tungsten carbide particles in a nickel-boron-silicon matrix	**WC content**
	Around 50% depending on ø

TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Hardness : 45 - 55 HRC
Tungsten carbides : 2000 - 2800 HV
Ni matrix : 400 - 550 HV

PACKAGING

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

Other packaging and other diameters: please consult us