

Cored welding wire

011121MBA

HARDFACE DIAMOND



## **CLASSIFICATION**

EN 14700:

T Fe16

## DESCRIPTION

- Cored wire for self-shielded metal arc hardfacing
- Chromium cast iron deposit containing complex niobium, vanadium and chromium carbides
- Weld metal produces an extreme resistance against mineral wear
- · Best results are achieved by welding two layers

## **APPLICATIONS**

HARDFACE DIAMOND is used for hardfacing components that have to resist high stress grinding abrasion without impact up to 650°C

#### Examples

Rotating excavator buckets, lignite crusher-fans, gravelo industry, conveyor screws, clinker crushers, homogenisers for coal and coke, shovel buckets working in sand etc.

# TYPICAL ALL-WELD METAL ANALYSIS

C	Mn	Si	Cr	Nb	V	Fe	
5	0.5	1.2	16	6.5	6.5	Bal.	

Structure: complex carbides in an austenitic matrix

#### **TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES**

Hardness: 3-layer deposit on mild steel: 60 - 65 HRc

#### **CONDITIONS OF USE**

Current type	Protection			
DC+	Self-shielded			

#### **OPERATING CONDITIONS**

Diameter	Current [A]		Voltage [V]		Stick-out [mm]	
[mm]	Range	Optimum	Range	Optimum	Range	Optimum
1.6	150 - 350	270	24 - 35	28	25 - 40	25
2.4	250 - 450	350	26 - 35	28	25 - 50	40
2.8	250 - 450	400	28 - 35	30	25 - 50	40

Recovery: 90 %

#### WELDING POSITIONS

Flat, half up, half down

# PACKAGING

Diameter	≤ <b>2.4</b> mm	≥ 2.4 mm	
Standard packaging	EN ISO 544: BS 300 spool	B 450 coil	Drum
Weight	15 kg	25 kg	Up to 330 kg

Other packaging and other diameters: please consult us