

Technical data sheet

011121MBA

Cored welding wire **HARDFACE 450-S**



CLASSIFICATION

EN 14700: T Fe2

DESCRIPTION

- Tubular wire for submerged arc hardfacing
- Low alloy martensitic deposit
- Welding under a flux blanket eliminates the emission of toxic fumes, particularly hexavalent chromium

APPLICATIONS

HARDFACE 450-S is used for surfacing and rebuilding parts subjected to impact and high compressive stresses

Examples

Continuous casting rollers, rack pads and rollers, crane wheels etc.

TYPICAL ALL-WELD METAL ANALYSIS

C	Mn	Si	Cr	Mo
0.4	1.5	0.7	2.5	0.5

Structure: martensitic

TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Hardness (3-layer deposit as welded): 450 HB

FLUX DESCRIPTION

	WA FLUX 325	WA FLUX 385	WA FLUX 415	WA ULTRAFLUX
EN ISO 14174 class	S A AB 1 65	S A AF 2 64	S A FB 1 55	S A FB 1 55

OPERATING CONDITIONS

Diameter [mm]	Current [A]		Voltage [V]		Stick-out [mm]	
	Range	Optimum	Range	Optimum	Range	Optimum
2.4	200 - 450	350	26 - 30	30	25 - 60	30
2.8	250 - 550	400	28 - 32	30	25 - 60	30
3.2	300 - 650	500	28 - 32	30	25 - 60	30

Recovery : 95 %

Current type/polarity: DC+

WELDING POSITIONS

EN ISO 6947: PA, PB.

ASME IX: 1G, 1F, 2F

Diameter	≥ 2.4 mm	
Standard packaging	B 450 coil	Drum
Weight	25 kg	Up to 330 kg

Other packaging and other diameters: please consult us

Welding products and techniques evolve constantly. All descriptions, illustrations and properties given in this data sheet are subject to change without notice and can only be considered as suitable for general guidance. This document is intended to help the user make the correct choice of product. It is his responsibility to assess its suitability for his intended application.