

Technical data sheet

011121MBA

Cored welding wire

HARDFACE AP-S**CLASSIFICATION**

EN 14700: T Fe9

DESCRIPTION

- Tubular wire for submerged arc hardfacing
- Ductile austenitic, non-magnetic, work-hardenable deposit
- Welding under a flux blanket eliminates the emission of toxic fumes, particularly hexavalent chromium

APPLICATIONS

HARDFACE AP-S produces an austenitic weld deposit which has excellent work hardening properties. The degree of work hardening is dependent on the amount of impact on the rebuilt component. It is used for rebuilding components exposed to high impact or heavy loads and can be welded on ferritic and austenitic steels including "Hadfield" manganese steel. The deposit can be multi-layered without limit

Examples

Railway frogs, railway wheels, pulleys, capstans, excavator teeth, crusher rolls, steel mill rolls, hammers, and all components for which a work hardening deposit is desirable.

TYPICAL ALL-WELD METAL ANALYSIS

C	Mn	Si	Cr
0.4	15	1	14

Structure: austenite

TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Hardness: 3-layer deposit:

As welded: 200 – 240 HB (20 - 25 HRc)

Work hardened: 45 – 55 HRc

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 - 40	30
2.8	250 - 550	400	28 - 32	30	25 - 40	30
3.2	300 - 650	500	28 - 32	30	25 - 40	30

Recovery : 95 %

Current type/polarity: DC+

WELDING POSITIONS

Flat

PACKAGING

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.