

<b>Technical data sheet</b>  <small>011121MBA</small>	<b>Cored welding Wire</b>  <b>HARDFACE HCNB-O</b>	 <b>Welding Alloys</b>
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### CLASSIFICATION

EN 14700: T Fe16

### DESCRIPTION

- Tubular wire for self-shielded metal arc hardfacing
- High chromium cast iron deposit with controlled niobium addition
- Weld metal contains a high proportion of hard primary chromium carbides in a tough austenitic matrix
- The deposit is suitable for hardfacing components subject to extremely severe abrasive wear and moderate impact

### APPLICATIONS

HARDFACE HCNB-O is used for hardfacing components undergoing wear by earth, sand and abrasives.

#### Examples

Gyratory crusher cones and mantles, catalyst pipes and valves, slurry pipes and valve bodies, dredge pump bodies, sand dredge parts, extruder screws, "barmac" crushers, mining and earthmoving equipment, blast furnace bells, brick muller tyres, crusher hammers and rolls, riddle plates, wear plates, drag line components, screw conveyors for cement, cone knives and shredders.

### TYPICAL ALL-WELD METAL ANALYSIS

C	Mn	Si	Cr	Nb	Others	Fe
5.2	0.2	1.5	27	2.2	+	Bal.

Structure: chromium and niobium carbides in an austenitic matrix. Niobium carbides and microalloying increase abrasion and impact resistance compared to classical high chromium cast irons.

### TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

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

### CONDITIONS OF USE

Current type	Protection
DC+	Self-shielded

### OPERATING CONDITIONS

Diameter [mm]	Current [A]		Voltage [V]		Stick-out [mm]	
	Range	Optimum	Range	Optimum	Range	Optimum
1.2	100 - 300	230	24 - 32	26	25 - 50	25
1.6	150 - 350	260	24 - 35	28	25 - 50	25
2.0	200 - 400	300	26 - 35	28	25 - 50	30
2.4	250 - 450	350	26 - 35	28	25 - 50	40
2.8	250 - 450	400	28 - 35	30	25 - 50	40
3.2	250 - 500	450	28 - 35	30	25 - 50	40

Recovery: 90 %

### WELDING POSITIONS

Flat, half up, half down

### PACKAGING

Diameter	≤ 2.4 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

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.