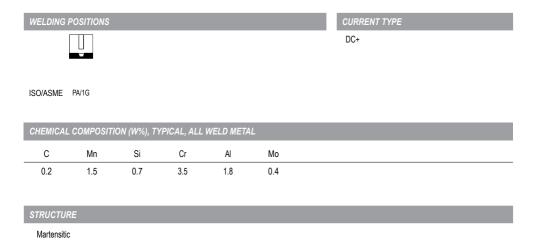
Lincore® 40-0

GENERAL DESCRIPTION

Lincore 40-O is a self shielded, open arc, flux cored tubular electrode that produces a martensitic deposit. The arc characteristics are excellent producing minimal spatter and good slag removal. Although, Lincore 40-O is primarily designed for the open arc operation, it may be used with a neutral flux for conditions requiring spatter elimination and removal of arc glare



MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Typical hardness values
Layer 1	ca. 36 HRc (340HB)
Layer 2	ca. 41 HRc (380HB)

PACKAGING AND AVAILA	BLE SIZES		
Diameter (mm)	2.0		
Unit: 11.34 kg coil 22RR	X		
22.7 kg coil 50C	X		

Lincore® 40-0: rev. EN 22

All information in this data sheet is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.eu for any udpated information. Fumes: Material Safety Data Sheets (MSDS) are available on our website.

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APPLICATION

This electrode provides an overlay hardfacing deposit on carbon and low alloy steels that resists rolling, sliding and metal-to-metal wear under heavy impact conditions. The deposit has a hardness of about 40 HRc which fills in the rather large hardness gap between the ferritic barnite buildup deposit of Lincore 33 and the martensitic deposit from Lincore 55 designed for metal-to-metal wear. Although the electrode is designed to provide a hardfacing deposit by itself, it could be used as a build-up electrode to provide a base on which harder deposits could be overlaid.

Typical applications include:

Bucket links Bucket bases Guide rolls Tractor rollers		Actuating cams Steel shafts Crane wheels Mine car wheels

ADDITIONAL INFORMATION

The area to be hardfaced should be clean and free of rust, scale, oil, grease or dirt of any kind. Any previous hardfacing deposit that has been embrittled by severe work hardening should also be removed. Irregularities such as cracks, low spots etc. should be properly repaired before hardfacing. Cold parts should be preheated to at least 40°C. Larger parts, and those made of higher alloy or higher carbon steel, should be preheated to the 100-150°C range.

Lincore 40-O deposits normally have good resistance to cross-checking. Special precautions, however, should be taken with any buildup or hardfacing product on applications thast are inherently crack sensitive. These applications include the facing of high carbon or alloy steels, previously faced parts and highly stressed parts. The facing of heavy cylinders, massive parts and parts having complex shapes are all examples of applications producing high internal stresses that may result in delayed cracking.

These applications may require one or more of the following:

1. Higher preheat temperature (150-260°C).

2. Higher interpass temperatures.

3. Controlled slow cooling between passes and/or layers

Interpass temperatures in the range of 150-200°C will not significantly affect the hardness of weld deposits produced by Lincore 40-O. The weld deposited, can be machined with carbide tools or can be finished by grinding.

CALCULATION	DATA					
	Wire Feed					
Diameter	Speed	Current	Arc Voltage	Deposition rate	Efficiency	
(mm)	(cm/min)	(A)	(V)	(kg/h)	(%)	
2.0	3.2 to 6.4	200-325	23-29	3.1-6.1	87-86	

COMPLEMENTARY PRODUCTS

Wearshield® MM40

