

SelectWear GP-FCO

Hardsurfacing / Self Shielded / Hardfacing

PRODUCT DATA SHEET

FEATURES

- Deposits a premium grade austenitic manganese steel with high chromium levels, which help to work harden more quickly, and to a higher degree than a non-chromium bearing manganese steel
- Ideal for situations with high impact and moderate wear
- Used to build up and repair manganese steel components, and it can be used as the final layer of hardfacing
- Interpass temperature to be kept below 500F
- Chemistry: Fe-Mn-Cr-C
- Unlimited layers can be deposited with proper welding procedure
- Machinable with carbide tools
- Will not cross crack
- Applications include: Manganese steel rock crushing hammers, rolls, buckets/teeth, impactor bars, gyratory mantles, dredge components

DIAMETERS (in (mm))

0.045 (1.2), 1/16 (1.6), 5/64 (2.0), 7/64 (2.8), 1/8 (3.2)

POSITIONS



SHIELDING GAS

N/A

POLARITY

Direct Current Electrode Positive (DCEP)

HARDNESS

As welded: 10-15 HRC. Work hardened: 45 - 52 HRC HRC

RECOMMENDED WELDING PARAMETERS

Diameter in (mm)	Shielding Gas	Position	WFS* in/min (m/min)	Amps	Volts	CTWD* in (mm)
0.045 (1.2 mm)	N/A	Flat & Horizontal	400 (10.2)	250	25	3/4 - 1 (19 - 25)
1/16 (1.6 mm)	N/A	Flat & Horizontal	260 (6.6)	300	26	3/4 - 1 1/4 (19 - 32)
5/64 (2.0 mm)	N/A	Flat & Horizontal	225 (5.7)	325	27	3/4 - 1 1/4 (19 - 32)
7/64 (2.8 mm)	N/A	Flat & Horizontal	160 (4.1)	425	28	1 1/4 - 1 3/4 (32 - 44)
1/8 (3.2 mm)	N/A	Flat & Horizontal	115 (2.9)	500	28	1 1/4 - 1 3/4 (32 - 44)

* WFS = Wire Feed Speed, CTWD = Contact Tip To Work Distance

PACKAGING (lbs (kgs))

33 (15) Spools, 60 (27.2) Coils, 500 (226.8) Round Drum, 800 (362.9) Hex Drum, 900 (408.2) Hex Drum

**Some packaging options may not be available depending on diameter and product. Special package options may be available upon request.*



Notice: Be sure to follow all your employers safety practices, policies and procedures when using this product. Refer to CSA W117.2 and ANSI Z49.1 Safety in Welding, Cutting and Allied Processes for further information and the manufactures SDS sheet. The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for use in the field. The manufacturer disclaims any warranty of merchantability or fitness for any particular purpose with respect to its products.

Revision: 5/21/2024

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STORAGE AND HANDLING

All products should be stored in original packaging, in dry conditions and handled with care. For more information refer to our website.



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