

Product Data Sheet

Tube-Alloy® 242-S MOD

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Features:	Benefits:
Low-alloy steel deposit	 Provides an overlay deposit with good abrasion resistance and machinability
 Provides high deposition rates with crack and porosity-free deposits 	 Allows for productive component build-up with minimal risk for costly rework

Applications:

Crane wheels
 Tractor idlers and rollers

Wire Characteristics:

WIRE TYPE: Composite (cored) submerged arc hardfacing wire

RECOMMENDED FLUXES: HF-N

TYPE OF CURRENT: Direct Current Electrode Positive (DCEP)

STANDARD DIAMETERS: 2.4 mm (3/32"), 3.2 mm (1/8")

RE-DRYING: Not recommended

STORAGE: Product should be stored in a dry, enclosed environment and in its original intact packaging.

Typical Deposit Chemistry* (Undiluted):

W/ Flux						
HF-N	0.14	2.00	0.80	3.00	0.75	Bal.

Relative Wear Resistance*:

ABRASION: Good/
IMPACT: Good
HEAT: Fair

Typical Hardness* (As Deposited):

		Hardness As Deposited On			
W/ Flux	Layer	AISI 1020 Steel	AISI 1045 Steel		
HF-N	1	29 Rc	44 Rc		
HF-N	2	38 Rc	45 Rc		
HF-N	3	39 Rc	40 Rc		

Deposit Characteristics:

DEPOSIT MICROSTRUCTURE: Low-carbon martensitic

MAXIMUM DEPOSIT THICKNESS: 3 Layers

MACHINABILITY: Fair

CUTTING: Can be oxy-fuel cut

STRONGLY MAGNETIC



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For a complete list of diameters and packaging, please contact Hobart Brothers at +1 (800) 424-1543 for US customer service, or +1 (937) 332-5188 for international customer service.

Standard Diameters & Packaging:

Package	2.4 mm (3/32")	3.2 mm (1/8")	
227 kg (500 lb.) Auto-Pak	S614329-466	S614343-466	ĺ

Recommended Fluxes:

Package	HF-N		
25 kg (55 lb.) Bag	S669810-Z55		

Typical	Opera	ting Pa	arame	ters*:

Typical Operating Parameters:									
Diameter	Optimum Amps	Volts	Nominal Travel Speed		Approximate Deposition Rate		CTWD		
mm (Inches)	Allips		cm/min	(in/min)	kg/hr	(lbs/hr)	mm	(Inches)	
2.4 (3/32)	350-500	25-29	31-41	(12-16)	6.4-10.0	(14.0-22.0)	32-38	(1 1/4 - 1 1/2)	
3.2 (1/8)	400-450	26-28	36-46	(14-18)	7.3	(16.0)	32-38	(1 1/4 - 1 1/2)	
3.2 (1/8)	450-500	27-30	36-46	(14-18)	9.1	(20.0)	32-38	(1 1/4 - 1 1/2)	
3.2 (1/8)	500-550	29-32	36-46	(14-18)	10.9	(24.0)	32-38	(1 1/4 - 1 1/2)	

- · Maintaining a proper welding procedure including pre-heat and interpass temperatures may be critical depending on the type and thickness of steel being welded.
- See Above: Parameters are provided for informational purposes only. All values are approximate. The optimal amperage, voltage, and travel speed may vary depending on the material thickness, joint design, and other variables specific to the application. Likewise, actual deposition rate may vary depending on contact tip to work distance used.

TECHNICAL QUESTIONS? For technical support of Hobart Filler Metals products, contact the Applications Engineering department by phone toll-free at +1 (800) 532-2618 or by e-mail at Applications. Engineering@hobartbrothers.com

* DISCLAIMER:

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Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standard Z49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36 St, # 130, Miami, FL 33166-6672 (can also be downloaded online at www.aws.org); OSHA Safety and Health Standards 29 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210. Safety Data Sheets on any Hobart Brothers Company product may be obtained from Hobart Customer Service or at www.hobartbrothers.com. Because Hobart Brothers Company is constantly improving products, Hobart reserves the right to change design and/or specifications without notice.

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