

Tube-Alloy[®] 887-S



FEATURES:

- Specially formulated modified stainless steel deposit is both hard and tough
- Provides high deposition rates with crack and porosity-free deposits

BENEFITS:

- Provides good resistance to metal-to-metal abrasion, impact, corrosion, and thermal fatigue
- Allows for productive component build-up and overlay

APPLICATIONS:

- Continuous caster rolls

WIRE TYPE: Composite (cored) submerged arc hardfacing wire

RECOMMENDED FLUXES: HF-N

TYPE OF CURRENT: Direct Current Electrode Positive (DCEP)

STANDARD Diameters: 3/32" (2.4 mm)

RE-DRYING: Not recommended

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

TYPICAL DEPOSIT CHEMISTRY* (Undiluted):

With Flux	% C	% Mn	% Si	% Cr	% Ni	% Mo	% V	% Nb	% Fe
SWX 150	0.12	1.00	0.60	12.50	2.50	1.50	0.20	0.15	Bal.

RELATIVE WEAR RESISTANCE*:

Abrasion: Very Good

Impact: Very Good

Heat: Good

TYPICAL HARDNESS* (As Deposited):

W/Flux	Layer	Hardness As Deposited On AISI 1020 Steel
HF-N	1	32 Rc
HF-N	2	38 Rc
HF-N	3-7	44 Rc

TYPICAL HARDNESS* (TEMPERED):

W/Flux	Hardness As Deposited	Time @ Temperature	Hardness after Tempering @		
			510°C (950°F)	565°C (1050°F)	620° C (1150°F)
HF-N	44 Rc	8 hrs.	44 Rc	41 Rc	35 RC

DEPOSIT CHARACTERISTICS:

Deposit Microstructures: Martensitic

Maximum Deposit Thickness: Unlimited

Machinability: Fair

Cutting: Cannot be oxy-fuel cut

Slightly Magnetic

*The information contained or otherwise referenced herein is presented only as "typical" without guarantee or warranty, and Hobart Brothers LLC expressly disclaims any liability incurred from any reliance thereon. Typical data are those obtained when welded and tested in accordance with the AWS A5.28 specification. Other tests and procedures may produce different results. No data is to be construed as a recommendation for any welding condition or technique not controlled by Hobart Brothers LLC.

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TYPICAL OPERATING PARAMETERS*:

Diameter Inches (mm)		Optimum Amps	Volts	Nominal Travel Speed Inches (mm)		Approximate Deposition Rate kg/hr (lbs/hr)	CTWD Inches (mm)	
3/32	(2.4)	350-500	25-29	12-16	(31-41)	6.4-10.0 (14.0-22.0)	1 1/4-1 1/2	(32-38)

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.

RECOMMENDED FLUXES:

Flux Name	50-lb. (22.7kg) Bag
HF-N Subarc Flux	S669810-055

STANDARD DIAMETERS AND PACKAGES: For a complete list of diameters and packaging, please contact Hobart Brothers at (800) 424-1543 or (937) 332-5188 for International Customer Service.

Diameter Inches (mm)	600-lb. (272kg) Auto-Pak
Net Pallet Weight	2400-lb (1089kg)
3/32 (2.4)	S618029-084

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

CAUTION:

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 36th St., Miami, FL 33166 (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 LLC product may be obtained from Hobart Customer Service or at www.hobartbrothers.com.

Because Hobart Brothers LLC is constantly improving products, Hobart reserves the right to change design and/or specifications without notice.

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