

Product Data Sheet

Tube-Alloy 952

Features:

- · Specially formulated high-carbon martensitic stainless steel deposit
- · Provides high deposition rates with crack and porosity-free deposits

Applications:

- Straightener rolls
- Edger rolls
- · Back-up rolls

Benefits:

- Provides improved hardness over standard 420 stainless alloys, but excellent toughness for higher-impact applications
- Allows for productive component build-up with minimal risk of costly ٠ rework

Plate leveler rolls

- Descale rolls
- · Aluminum caster roll cores

Wire Characteristics:

WIRE TYPE: Composite (cored) submerged arc hardfacing wire

RECOMMENDED FLUXES: HF-N

TYPE OF CURRENT: Direct Current Electrode Positive (DCEP)

STANDARD DIAMETERS: 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	Depos	sit Chei	mistry	* (Undil	uted):					
W/ Flux										
HF-N	0.27	1.45	0.60	12.80	0.60	1.80	0.19	0.18	Bal.	

Relative Wear Resistance*:

ABRASION: Very Good

IMPACT: Very Good

HEAT: Good; Can be used in higher temperature applications up to 1050°F, but should not be used where thermal fatigue/fire cracking is a prime concern

Typical Hardness* (As Deposited):						
Hardness As Deposited On						
W/ Flux	Layer	ayer AISI 1020 Steel AISI 1045 Steel				
HF-N	1	40 Rc	44 Rc			
HF-N	2	45 Rc	49 Rc			
HF-N	3	49 Rc	49 Rc			

Турі	cal Hardness* (Tempered):						
	Hardness	Time @	Hardness After Tempering @					
W/ FI	lux As Deposited	Temperature	510°C (950°F)	565°C (1050°F)	620°C (1150°F)			
HF-I	N 50 Rc	8 Hrs.	52 Rc	50 Rc	43 Rc			

Deposit Characteristics:

DEPOSIT MICROSTRUCTURE: Martensitic

MAXIMUM DEPOSIT THICKNESS: Unlimited

MACHINABILITY: Good when using carbide tools

CUTTING: Cannot be oxy-fuel cut

SLIGHTLY MAGNETIC



Product Data Sheet

be-Allo

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 3.2 mm (1/8") 227 kg (500 lb.) Auto-Pak S614043-466

Recommended Fluxes: HF-N

25 kg (55 lb.) Bag S669810-Z55

Typical Operating Parameters*:											
Diameter	Optimum	Volts	-	ninal Speed		oximate ition Rate		CTWD			
mm (Inches)	Amps		cm/min	(in/min)	kg/hr	(lbs/hr)	mm	(Inches)			
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:

The information contained or otherwise referenced herein is for reference purposes only and is presented only as "typical." Typical data are those obtained when welding and testing are performed in accordance with AWS specification(s) and/or standard industry practices. Other tests and procedures may produce difference results and typical data should not be assumed to yield similar results in a particular application or weldment. No data is to be constructed as a recommendation for any welding condition or technique not controlled by Hobart Brothers Company. Hobart Brothers Company does not assume responsibility for any results obtained by persons over whose methods it has no control. It is the user's responsibility to determine the suitability of any products or methods mentioned herein for a particular purpose. In light of the foregoing, Hobart Brothers Company specifically disclaims any liability incurred from reliance on such information, and disclaims all guarantees and warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, and further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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 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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Specification: PDS690 // Type Number: 690 // Revision: 160310 // Replaces: 141010 // Reviewed By: S. Will Issued By: R. Fox // Reason For Issue: Correction of "W" composition typo

