

Declaration of Performance

DOP No. 21

In accordance to CPR 305/2011:

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|----|--|---|
| 1. | Identification of product type:
Brand name:
Part numbers and diameters:
Classification: | Tubular cored electrode welding consumable
Hobart® Fabshield® 81N1
S228125 (2.0mm)
EN ISO 17632-A T38 4 1Ni Y NO 1 H10 |
| 2. | Batch number identifying the construction product: | Refer to product label |
| 3. | Intended use of the construction product: | Metallic structures or composite metal and concrete structures |
| 4. | Name and contact address of the manufacturer: | Hobart Brothers LLC. 101 Trade Square East Troy, OH 45373 USA |
| 5. | Authorized representative: | N/A |
| 6. | System of assessment and verification of constancy of performance of the construction product: | System 2+ |
| 7. | Notified body/Reg. No: | TÜV Rhineland/0035 performed: <ul style="list-style-type: none"> • Initial inspection of the manufacturing plant and of factory production control • Continuous surveillance, assessment, and evaluation of factory production control under System 2+ and issued certificate of conformity of the factory production control no. 0035-CPR-C810 |
| 8. | European Technical Assessment: | N/A |

9. Declared performance (see chart on the right):
10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer.

Signed on behalf of the manufacturer by:



David A. Thomas – Quality Assurance Representative Troy, OH USA 2/23/18

Essential Characteristics:	Performance:			Harmonized Technical Specification:
	Min	Max	Values	
Tolerances on dimensions:				EN 13479:2017
2.0mm diameter	1.94	2.02	mm	
Elongation:	20	-	%	
Tensile strength:	470	600	Mpa	
Yield strength:	380	-	Mpa	
Impact strength:				
CVN value @ -40°C	47	-	Joules	
Chemical composition:				
C:	-	-	%	
Mn:	-	1.4	%	
Si:	-	0.8	%	
P:	-	-	%	
S:	-	-	%	
Cr:	-	0.2	%	
Ni:	0.6	1.2	%	
Mo:	-	0.2	%	
V:	-	0.08	%	
Nb:	-	0.05	%	
Al:	-	2.0	%	
Cu:	-	0.3	%	
Durability:	NPD	NPD	NPD	
Dangerous substances:	NPD	NPD	NPD	