

### QUALITY CERTIFICATE

№ **2501-248** Issued Date: **31.01.2025**

**Manufacturer: PlasmaTec LLC**  
**18 Pravednykiv svitu str., Vinnytsia, Vinnytsia**  
**region, Vinnytsia district, Ukraine, 21036**

<b>Product</b>
<b>Welding electrodes Monolith M-316L-17</b> <b>TM MONOLITH d 3.2 mm (1/8"): vacuum 1 kg (2.2 LB)</b>

<b>Specification/Classification</b>	AWS A5.4/SFA-5.4: E316/E316L-17 EN ISO 3581-A-E 19 12 3 L R 1 2
<b>Batch classification according to EN ISO 14344</b>	<b>C5</b>
<b>Lot Number</b>	<b>001</b>

#### Mechanical properties of weld metal EN 10204, type 2.2

Index	Requirements (AWS A5.4)	Typical data
<b>Tensile strength, (MPa/ksi)</b>	min 490 (70)	571 (83)
<b>Elongation, %</b>	min. 30	42
<b>Ferrite Number, FN (magnetic induction method)</b>	<b>Actual data</b>	
	4.7	
<b>Ferrite Number, WRC-1992</b>	<b>Actual data</b>	
	16	

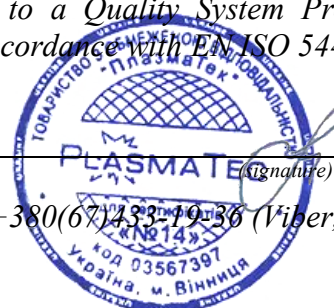
#### Chemical analysis of weld metal, % EN 10204, type 3.1

Index	Requirements (AWS A5.4)	Actual data
<b>C</b>	max. 0.04	0.02
<b>Si</b>	max. 1.0	0.7
<b>Mn</b>	0.5-2.5	0.94
<b>P</b>	max. 0.04	0.02
<b>S</b>	max. 0.03	0.021
<b>Cr</b>	17.0-20.0	18.3
<b>Ni</b>	11.0-14.0	11.79
<b>Mo</b>	2.0-3.0	2.65
<b>Cu</b>	max. 0.75	0.07

#### Post weld heat treatment - As welded

The product was manufactured and supplied according to a Quality System Program that meets the requirements of ISO 9001. The delivery conditions are in accordance with EN ISO 544.

**Head of Technical Control: Andrii Babyn**



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Lot Number identification: **001 3.2 XO** (example of Lot number), where **001** – actual Lot Number, **3.2 XO** - additional information (3.2 - electrode size in mm; X – pressing team, O - packing team)