

## QUALITY CERTIFICATE

№ 2410-182 Issued Date: 23.10.2024

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

Product	
Welding electrodes Monolith M-316L-16 TM MONOLITH d 2.5 mm (3/32"): vacuum 1 kg (2.2 LB)	
Specification/Classification	AWS A5.4 / SFA-5.4: E316 / E316L-16 CSA W48: E316L-16 EN ISO 3581-A-E 19 12 3 L R 1 2
Batch classification according to EN ISO 14344	<b>C5</b>
Lot Number	<b>001</b>

### Mechanical properties of weld metal according to EN 10204, type 3.1

Index	Requirements (AWS A5.4)	Actual data
Tensile strength, (MPa/ksi)	min 490 (70)	596 (86)
Elongation, %	min. 30	39
	Requirements (AWS A5.4)	Actual data
Ferrite Number, FN	5 - 15	12.3

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

Index	Requirements (AWS A5.4)	Actual data
<b>C</b>	max. 0.04	0.004
<b>Si</b>	max. 1.0	0.73
<b>Mn</b>	max. 2.5	1
<b>P</b>	max. 0.04	0.025
<b>S</b>	max. 0.03	0.025
<b>Cr</b>	max. 20.0	18.9
<b>Ni</b>	max. 14.0	11.83
<b>Mo</b>	max. 3.0	2.93
<b>Cu</b>	max. 0.75	0.1

#### 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)