

**QUALITY CERTIFICATE**

№ 2410-028 Issued Date: 04.10.2024

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

Product
<b>Welding electrodes Monolith M-309L-16 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: E309 / E309L-16 CSA W48: E309L-16 EN ISO 3581-A-E 23 12 L R 1 2
<b>Batch classification according to EN ISO 14344</b>	<b>C5</b>
<b>Lot Number</b>	<b>007</b>

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

Index	Requirements (AWS A5.4)	Actual data
<b>Tensile strength, (MPa/ksi)</b>	min. 520 (75)	579 (84)
<b>Elongation, %</b>	min. 30	36
	Requirements (AWS A5.4)	Actual data
<b>Ferrite Number, FN</b>	5 - 15	14.8

**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	0.02
<b>Si</b>	max. 1.0	0.85
<b>Mn</b>	max. 2.5	1.35
<b>P</b>	max. 0.04	0.022
<b>S</b>	max. 0.03	0.015
<b>Cr</b>	max. 25.0	22.50
<b>Ni</b>	max. 14.0	12.67
<b>Mo</b>	max. 0.75	0.03
<b>Cu</b>	max. 0.75	0.05

**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)*