

**QUALITY CERTIFICATE**

№ 2410-132 Issued Date: 17.10.2024

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

<b>Product</b>	
<b>Welding electrodes Monolith 7018-1 TM MONOLITH d 2.5 mm (3/32"): pack 2.5 kg (5.5 LB)</b>	
<b>Specification/Classification</b>	AWS A5.1 / SFA-5.1: E7018-1 CSA W48: E4918-1 H8 EN ISO 2560-A-E 46 5 B 3 2 H5
<b>Batch classification according to EN ISO 14344</b>	<b>C5</b>
<b>Lot Number</b>	<b>001</b>

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

Index	Requirements (AWS A5.1)	Actual data
<b>Tensile strength, (MPa/ksi)</b>	min. 490 (70)	607 (88)
<b>Elongation, %</b>	min. 22	29
<b>Yield strength, (MPa/ksi)</b>	min. 400 (58)	466 (68)
<b>Impact energy (KV), J/(ft-lb) (-50°C/-58°F)</b>	min. 27 (20)	75 (55)
<b>Diffusible hydrogen, ml/100g</b>	max. 8	3.7

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

Index	Requirements (AWS A5.1)	Actual data
<b>C</b>	max. 0.15	0.09
<b>Si</b>	max. 0.75	0.61
<b>Mn</b>	max. 1.6	1.49
<b>P</b>	max. 0.035	0.027
<b>S</b>	max. 0.35	0.005
<b>Cr</b>	max. 0.2	0.09
<b>Ni</b>	max. 0.3	0.03
<b>Mo</b>	max. 0.3	0.003
<b>V</b>	max. 0.08	0.01
<b>Mn+Cr+Ni+Mo+V</b>	max. 1.75	1.62

**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**

quality@plasmatec.com.ua, +380(65)44936 (Viber, WhatsApp, Telegram)



*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)*

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