

## QUALITY CERTIFICATE

№ 2512-238 Issued Date: 21.12.2025

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

<b>Product</b>
<b>Welding electrodes Monolith 7018-1 H4R TM MONOLITH d 3.2 mm (1/8"): vacuum 2 kg (4.4 LB)</b>

<b>Specification/Classification</b>	AWS A5.1 / SFA-5.1: E7018-1 H4R EN ISO 2560-A- E 46 5 B 3 2 H5 CSA W48: E4918-1 H4 4Y46H5
<b>Batch classification according to EN ISO 14344</b>	<b>C5</b>
<b>Lot Number</b>	<b>026</b>

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

Index	Requirements (AWS A5.1)	Typical data
Tensile strength, (MPa/ksi)	min. 490 (70)	579 (84)
Elongation, %	min. 22	28
Yield strength, (MPa/ksi)	min. 400 (58)	497 (72)
Impact energy (KV), J/(ft-lb) (-50°C/-58°F)	min. 27 (20)	87 (64)
Diffusible hydrogen, ml/100g	max. 4	3.33

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

Index	Requirements (AWS A5.1)	Actual data
<b>C</b>	max. 0.15	0.08
<b>Si</b>	max. 0.75	0.64
<b>Mn</b>	max. 1.6	1.31
<b>P</b>	max. 0.035	0.028
<b>S</b>	max. 0.035	0.01
<b>Cr</b>	max. 0.2	0.07
<b>Ni</b>	max. 0.3	0.04
<b>Mo</b>	max. 0.3	0.005
<b>V</b>	max. 0.08	0.01
<b>Mn+Cr+Ni+Mo+V</b>	max. 1.75	1.435

**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)