

### QUALITY CERTIFICATE

№ 2511-234 Issued Date: 26.11.2025

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

**Customer: Monolith Bison Inc**  
501-10022 110 Street Nw, Edmonton, Alberta, T6V 0C6, Canada

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

<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>021</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)	586 (85)
Elongation, %	min. 22	25
Yield strength, (MPa/ksi)	min. 400 (58)	527 (76)
Impact energy (KV), J/(ft-lb) (-50°C/-58°F)	min. 27 (20)	55 (41)
Diffusible hydrogen, ml/100g	max. 4	2.2

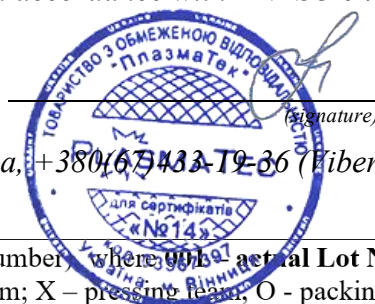
#### Chemical analysis of weld metal, % EN 10204, type 3.1

Index	Requirements (AWS A5.1)	Actual data
C	max. 0.15	0.09
Si	max. 0.75	0.63
Mn	max. 1.6	1.34
P	max. 0.035	0.029
S	max. 0.035	0.008
Cr	max. 0.2	0.06
Ni	max. 0.3	0.04
Mo	max. 0.3	0.007
V	max. 0.08	0.01
Mn+Cr+Ni+Mo+V	max. 1.75	1.46

#### 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(67)433-19-36 (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))