

Inspection certificate 3.1

as per : EN 10204

No. : 2020-2031012252-60-105476-014

Rev. 0

Page 1 of 1

PO no.	of	03.11.2020
Order no.		
Delivery note/pos./splitt	of	13.11.2020
Product	GTAW Rod	
Trade name	BÖHLER EML 5	
Standard designation	EN ISO 636-A: W 46 5 2Si AWS A5.18: ER70S-3	
Dimension	2,4 x 1000 mm	
Heat no.	105476	
Quantity	20,0 KG	

Chemical composition in % of the product

C	Si	Mn	P	S	Cr	Mo	Ni	V	Cu	Ti	Al	Zr		
0,11	0,53	1,09	0,009	0,004	0,04	0,01	0,02	< 0,01	< 0,01	0,07	< 0,01	< 0,01		

Mechanical properties

EN 10204: 2.2

Tensile test					according to : EN ISO 6892-1/09		
Specimen preparation					according to : EN 876		
T	ReL / Rp 0,2 MPa	Rp 1,0 MPa	Rm MPa	A (Lo = 5d) %	Z %	WBH PWHT	Remarks
20°C	≥ 460		530 - 680	≥ 23			
Impact test					according to : EN ISO 148-1/10		
Specimen preparation					according to : EN 875 VWT 0/b		
T	Impact energy KV / J	Average KV / J	Lateral expansion mm	Shear fracture %	WBH PWHT	Remarks	
-50°C	≥ 47						
20°C	≥ 130						

The product BÖHLER EML 5 meets the requirements of the filler metal specification ASME sec II, part C, AWS A5.18: ER70S-3 when tested in accordance with that specification. Produced according to AWS A5.01, class S1

Town
Kapfenberg

Date
16.11.2020

This certificate was issued by DP-equipment and does not require signature.

Authorized representative
Gugimeier

Naročnik / Bestellér / Purchaser:	Prevzemni certifikat Abnahmeprüfzeugnis Inspection certificate	
	Št. / Nr. / No. 2021 121	Datum/Datum/Date 20.8.2021
	Naročilo št. / Bestellung Nr. / Order No.	Dobavni list / Lieferschein / Delivery note
Znak izvedenca Zeilchen des Sachverständigen Inspector's stamp	Izdelek / Erzeugnis / Product VARILNE ELEKTRODE	

Poz.	Dobavno prevzemni pogoji / Lieferbedingungen / Terms of delivery
1	AWS A-S.S : E 11018-G ; EN ISO 18275-A : ~ E 69 6Mn2NiCrMo B 42 HS

Kemična analiza / Chemische Zusammensetzung / Chemical Composition																	EN 10204-2.2
Poz.	Št. sarže Schmelzen Nr. Cast No.	Kvaliteta Werkstoff Quality	C	Si	Mn	P	S	Cr	Ni	Cu	Mo	V	Nb	Ti	Al	Sn	Fe
			%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	041310	EV8 80	0,050	0,400	1,800			0,400	2,200		0,450						

Mehanske lastnosti / Mechanische Eigenschaften / Mechanical properties								EN 10204-2.2	
Poz.	Št. sarže Schmelzen Nr. Cast No.	Teža Gewicht Weight	Kvaliteta Werkstoff Quality	Dimenzija Abmessung Dimension	Napetost tečenja Streckgrenze Yield strenght	Natezna trdnost Zugfestigkeit Tensile strenght	Raztezek Bruchdehnung Elongation	Žilavost (ISO-V) Kerbschlagarbeit Impact test	Temperatura Temperatur Temperature
		kg		mm	MPa	MPa	%	J	(°C)
1	041310	20,00	EV8 80	3,25	>700	810-960	>17	>47	-60

Instrumentacija ELI-MP d.o.o.
Strojarska 8
HR-10000 ZAGREB

CROATIA

Works Certificate EN 10204/3.1										
Customer: Instrimentacija ELI-MP d.o.o.										
Order-No.: E-Mail from 15-03-2019 Delivery note No: 19.073 L from 06-05-2019							Our ref.			
Charge-No.	Trade mark			Dimension		Weight		Delivery condition		
039534	MEGAFIL A 867 M			ø 1,6		416.00		K 300		
Analysis weld metal, welding with M 21 (82 % Ar + 18 % CO₂)										
Charge-No.	C %	Si %	Mn %	Cr %	Cu %	B %	W %			
039534	2.34	1.07	0.90	10.06	0.11	4.12	0.10			
Hardness (HRC)										
039534	61	67	63	62	63	63				

Date: 13-05-2019

the report has been carried by our EDV-system and will therefore not been signed

R. Scholz

Quality control



INSPECTION CERTIFICATE (3.1) - Chemical analysis
TEST REPORT (2.2) - Mechanical properties

Date: 2022-08-26

Certificate number: EC26894259 rev. 0

Our order: 0100548776
Our reference: D. Margetic (Croatia)
Customer number: HUE00079
Customer order date: 20220624

Your order: 103/2022
Your reference:
Your fax number:
Your e-mail:

Invoice address
INSTRUMENTACIJA ELI-MP D.O.O.
STROJARSKA 8.
10000 ZAGREB
Croatia

Receiver of certificate

Delivery address
INSTRUMENTACIJA ELI-MP D.O.O.
STROJARSKA 8.
10000 ZAGREB
Croatia

DELIVERY

Lot number:

PVW2911457

Quantity:

105 KGM

PRODUCT

Brand: ESAB
Description: OK Autrod 5183 1.2mm 7kg
Item number: **1816129870**
Heat number: **22210186**

CLASSIFICATIONS

SFA/AWS A5.10: ER5183
EN ISO 18273: S Al 5183 (AlMg4,5Mn0,7(A))

CHEMICAL COMPOSITION

Actual results: acc to EN 10204 - 3.1

Wire/strip

Auxiliary:

Si	0.05%
Mn	0.55%
Cr	0.05%
Cu	0.01%
Ti	0.02%
Al	94.6%
Fe	0.09%
Mg	4.6%
Zn	0.01%

MECHANICAL PROPERTIES

Typical data: acc to EN 10204 - 2.2

Standard:
Auxiliary:
Condition:

TENSILE

<u>Rp0.2</u>	<u>Rm</u>	<u>A4-A5</u>
140 MPa	290 MPa	25 %

IMPACT

<u>Temp</u>	+20 °C
<u>KV</u>	30 J

COMMENTS

Product supplied under a QA Programme fulfilling the EN ISO 9001 standard.
This certificate is produced electronically and is valid without signature.
Please refer any queries to:

ESAB Kft. 1083 Budapest, Bókay János u. 44-46., C6 épület, 7. emelet +36 1 382-12-00

Validation - Chemical Analysis

Josef Moravek

Quality Manager

Validation - Others

Tapio Huhtala, Joe Cacioppo