RR:0302/24

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

ESAB SeAH Welding Products(Yantai) Co., Ltd
No.8 Taizhou RD,E&T Development Area,
Yantai, Shandong, China 264006
TEL: 0535-397-5071 FAX: 0535-397-5090

Certificate No: 23-0000-1173
Issued Date : 2023.08.14

Brand Name : OK Tubrod 71

This material conforms to specification:
AWS A5.20/A5.20M,ASME SFA-5.20/5.20M
Type : A5.20 E71T-1C / E71T-1M
E491T-1C/ E491T-1M

Customer Name : ESAB INDUSTRIA ECOMERCIO LTDA
P/O No. : 4500692616
Item No. : 749486
EAN Code : 7895672013042
Diameter Size : 1.2 mm
Weight : 23130 KG
Lot Number : F160B3G120
Shielding Gas : 100% $CO_2$

| Chemical Compositions (EN 10204 - 3.1) | | Specification Requirements | |
|---|---|---|---|
| C | 0.037 | MAX | 0.12 |
| Mn | 1.330 | MAX | 1.75 |
| Si | 0.600 | MAX | 0.90 |
| S | 0.009 | MAX | 0.03 |
| P | 0.007 | MAX | 0.03 |
| Cr | 0.027 | MAX | 0.20 |
| Ni | 0.033 | MAX | 0.50 |
| Mo | 0.004 | MAX | 0.30 |
| V | 0.017 | MAX | 0.08 |
| Cu | 0.008 | MAX | 0.35 |
| Al | | | N/A |
| Ti | | | N/A |
| Co | | | N/A |
| Cb+Ta | | | N/A |
| Fe | | | N/A |
| Zn | | | N/A |
| Be | | | N/A |
| Pb | | | N/A |
| Sn | | | N/A |
| W | | | N/A |
| Others | | | N/A |

| Mechanical Properties As welded (EN 10204 - 2.2) | | Specification Requirements As welded |
|---|---|---|
| Tensile Test | | |
| Y.S.(0.2%) Mpa | 533 | MIN 390 |
| T.S . Mpa | 595 | 490-670 |
| Elongation (2")% | 27 | MIN 22 |
| Reduction of Area,% | 69 | N/A |
| Impact(Charpy V-Notch) | | |
| Temp. | Joule | Joule |
| -20℃ | 62 | MIN 27 |
| Fillet Weld Test | Conform | |
| Radiographic Test | Conform | |

Remarks:

The undersigned certifies that the products supplied will meet the applicable AWS filler metal specification (if, applicable) when tested in accordance with those specifications.

BY : Linggi merga
Name: Quality Manager