



ABS

WELDING CONSUMABLE MARKETING CERTIFICATE

Certificate No.: 767189-5021500-001_____

Report No.: 5021500_____

Port of: Hamburg / Germany_____

Date: November 10, 2021_____

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF MARKETING COMPANY ITW Welding GmbH, ATTEND THEIR FACILITY AT 67317 Altleinigen, ON THE 10 DAY OF NOVEMBER, AND SUBSEQUENT DATES, IN ORDER TO CARRY OUT A SURVEY OF FACILITIES AND ASSOCIATED HANDLING/ STORAGE CONTROL PROCEDURES IN ACCORDANCE WITH ABS PROCESS FOR APPROVAL OF FIRMS MARKETING WELDING CONSUMABLES AND,

THAT THE FACILITY OF THE ELECTRODE MANUFACTURER SUPPLYING THE MARKETING COMPANY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT BASED ON CERTIFICATION TESTS WITNESSED BY ABS CONFIRMED AT THIS TIME, AND THAT EACH WELDING CONSUMABLE LISTED BELOW IS CONSIDERED IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE GAS METAL ARC WELDING INCLUDING MIG/TIG WELDING SECTION:

| <u>BRAND NAME (OEM)</u> | <u>SPECIFICATION</u> | <u>GRADE OR CLASS</u> | <u>SHIELDING GAS</u> | <u>POSITION</u> | <u>CURRENT/ POLARITY</u> | <u>SIZE</u> |
|-------------------------|----------------------|-----------------------|----------------------|-------------------|--------------------------|-------------|
| STEIN-MF 713R | ABS | 4Y 400SA H5 | 82%Ar,18%CO2 | All, V- Down | Dcep | 1,2-1,6 mm |
| STEIN-MF 710M | ABS | 5YQ 460 SA H5 | 82%Ar,18%CO2 | F, Fillet, V,H | Dcep | 1,2 mm |
| Elgacore Edge | ABS | 3Y SA H5 | 80% Ar, 20 % CO2 | F | DCEP | 1,2-1,6 mm |

F.Fritzing / SURVEYOR



Note: This Certificate evidences compliance with one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping and is issued solely for the use of the Bureau, its committees, its clients or other authorized entities. This Certificate is a representation only that the structure, item of material, equipment, machinery or any other item covered by this Certificate has met one or more of the Rules, guides, standards or other criteria of American Bureau of Shipping as of the date of issue. Parties are advised to review the Rules for the scope and conditions of classification and to review the survey records for a fuller description of any restrictions or limitation on the vessel's service or surveys. The validity, applicability and interpretation of this Certificate is governed by the Rules and standards of American Bureau of Shipping who shall remain the sole judge thereof. Nothing contained in this Certificate or in any notation made in contemplation of this Certificate shall be deemed to relieve any designer, builder, owner, manufacturer, seller, supplier, repairer, operator or other entity of any warranty express or implied.



WELDING CONSUMABLE CERTIFICATE

Certificate No.: 767189-5021500-002_____

Report No.: 5021500_____

Port of Hamburg / Germany_____

Date: November 10, 2021_____

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF ITW WELDING GMNH, ATTEND THEIR PLANT AT D-67317 ALTLEINIGEN, GERMANY, ON THE 10TH DAY OF NOVEMBER, 2021 AND ON SUBSEQUENT DATES, IN ORDER TO CARRY OUT A PLANT SURVEY OF FACILITIES AND ASSOCIATED QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES AND TO WITNESS AND REPORT ON THE ANNUAL APPROVAL TESTING OF WELDING CONSUMABLES; AND,

THAT THE FACILITY IS CONSIDERED CAPABLE OF PROVIDING AN ACCEPTABLE UNIFORM PRODUCT, AND THAT EACH WELDING CONSUMABLE LISTED BELOW WAS FOUND IN COMPLIANCE WITH THE SPECIFICATION INDICATED AND IS ELIGIBLE TO BE PLACED ON THIS BUREAU'S APPROVED WELDING CONSUMABLES LIST IN THE GAS METAL ARC WELDING INCLUDING MIG/TIG WELDING SECTION:

| <u>TRADE NAME</u> | <u>SPECIFICATION</u> | <u>GRADE OR CLASS</u> | <u>SHIELDING GAS</u> | <u>POSITION</u> | <u>CURRENT/ POLARITY</u> | <u>SIZE</u> |
|--|----------------------|-----------------------|----------------------|-----------------|--------------------------|-------------|
| Megafil 742 B | ABS | 5YQ690SA H5 | 82%Ar,18%CO2 | F,Fillet | Dcep | 1,2 mm |
| Megafil 742 M | ABS | 5YQ690SA H5 | 82%Ar,18%CO2 | F,Fillet | Dcep | 1,2 mm |
| Megafil 821 R | ABS | 3Y400SA** H5 | 82%Ar,18%CO2 | All,V-down | Dcep | 1,2-1,6 mm |
| ***)Manufacture r's guaranteed minimum properties: 47J at -60°C and YS 460 N7mm2 at RT | | | | | | |
| Megafil 550 R | ABS | 5YQ 550 SA | 82%Ar,18%CO2 | All | Dcep | 1,2 mm |
| Megafil 690 R | ABS | 4YQ690SA H5 | 82%Ar,18%CO2 | F,Fillet,V,H | Dcep | 1,2 mm |



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|---------------|-----|-------------------------|--------------|-----------------|------|-----------|
| Megafil 710 M | ABS | 3Y400SA H5 | 82%Ar,18%CO2 | All, V- down | Dcen | 1,2 mm |
| Megafil 710 M | ABS | 3Y400SA H5 | 82%Ar,18%CO2 | All, V-down | Dcep | 1,2 mm |
| Megafil 710 M | ABS | 5YQ460SA H5 | 82%Ar,18%CO2 | F,Fillet,V,H | Dcep | 1,2 mm |
| Megafil 713 R | ABS | 4YSA, 4Y400SA H5 | 82%Ar,18%CO2 | All, V- down | Dcep | 1,2-1,6 m |
| Megafil 713 R | ABS | 3YSA, 3Y400SA* H5 | CO2 | All, V- down | Dcep | 1,2-1,6 m |

*)one side welding with ceramic backing material subject to satisfactory test at user's plant

| | | | | | | |
|--------------|-----|------------------------|--------------|----------------|------|------------|
| Megafil 731B | ABS | 4YSA, 4Y400SA H5 | 82%Ar,18%CO2 | All, V-down | Dcep | 1,2 -1.6 m |
| Megafil 731B | ABS | 4YSA, 4Y400SA H5 | CO2 | All, V-down | Dcep | 1,2 -1.6 m |



F.Fritzinger / SURVEYOR

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