



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 IT'W 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:

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/POLARITY	SIZE
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
**)Manufacturer'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



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