

Report No.: AG 3733882

Certificate No.:	AG	3733882-A-X,	Page	1	of 2	

Port of. Augsburg / Germany____

Date: 21.12.2019_____

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF ITW WELDING GMB H , ATTEND THEIR PLANT AT D-67317 ALTLEININGEN, ON THE 25 DAY OF SEPTEMBER, 2019 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%C O2	F,Fillet	Dcep	1,2 mm
Megafil 742 M	ABS	5YQ690SA H5	82%Ar,18%C O2	F,Fillet	Dcep	1,2 mm
Megafil 821 R	ABS	3Y400SA** H5	82%Ar,18%C do	All,V- own	Dcep	1,2-1,6 mm
**)Manufacturer's	s guaranteed minimum p	properties: 47J at -0	TO CHARLES TO 1. SECURIOR SECU	nm2 at RT		
Megafil 550 R SDX S2Si- EM12K / SWX110	ABS ABS	5YQ 550 SA 4YM H5	82%Ar,18%CO2	All F	Dcep DCEP	1,2 mm 2,0- 4,0mm
Megafil 620 R	ABS	4YQ620SA H5	82%Ar,18%CO2	All, Fillet	Dcep	1,2-1,6 mm
Megafil 690 R	ABS	4YQ690SA	82%Ar,18%CO2	F,Fillet,V,H	Dcep	1,2 mm

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nd is issued solely for the use of the Bureau, its ninery or any other item covered by this Certificate d to review the Rules for the scope and conditions. The validity and interpretation of this



Certificate No.: AG 3733882-A-X, Page 2 of 2

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THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF ITW WELDING GMBH, ATTEND THEIR PLANT AT D-67317 ALTLEININGEN / GERMANY, ON THE 25 DAY OF SEPTEMBER, 2019 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 <u>NAME</u>	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
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 mm
Megafil 713 R	ABS	3YSA, 3Y400SA* H5	CO2	All, V- down	Dcep	1,2-1,6 mm
*)one side welding wi	th ceramic backing mat	erial subject to sa	atisfactory test at user	's plant		
Megafil 731B	ABS	4YSA, 4Y400SA H5	82%Ar,18%CO2	All, V-down	Dcep	1,2 -1.6 mm
Megafil 731B	ABS	4YSA, 4Y400SA H5	CO2	All, V-down	Dcep	1,2 -1.6 mm

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Note:

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, applicability, 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 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.



Certificate No.:	AG 3733882-B-X Page	1 of	2_
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Port of. Augsburg / Germany____

Date: 21.12.2019

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THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF ITW WELDING GMBH, ATTEND THEIR PLANT AT D-67317 ALTLEININGEN / GERMANY, ON THE 25 DAY OF SEPTEMBER, 2019 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 SUBMERGED ARC WELDING SECTION:

TRADE <u>NAME</u>	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
SDA D3 / ST55	ABS	5YQ460M H5		F	dcep	4,0 mm
SDA S2 / ST55	ABS	3YM H5		F	dcep	1,6-4,0 mm
Topcore 731 B / ST55	ABS	3YM H5		F	dcep	1,6-4,0 mm
Topcore 735 B / 2D / SDA S2 / ST55	ABS	3YTM H5		F	dcep	1,6-4,0 mm
Topcore 742 B / ST55	ABS	5YQ690M H5		F	dcep	4,0 mm
SDX S2Si- EM12K / SWX120	ABS-Rules	3YT H5		F	DCEP(1.Head), AC (2.Head)	2,0-3,2mm
(Tandem)	AWS					

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Note

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Certificate No.: AC	3733882-B-X	, Page 2 d	of 2
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Report No.: AG 3733822

Port of. Augsburg / Germany

Date: 21.12.2019

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF ITW WELDING GMBH, ATTEND THEIR PLANT AT D-67317 ALTLEININGEN / GERMANY, ON THE 25 DAY OF SEPTEMBER, 2019 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 SUBMERGED ARC WELDING SECTION:

TRADE NAME	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
SDX S2 / SWX150	ABS	3YM H5		F	Dcep	1,6-4,0 mm
SDX S3Si- EH12K / SWX150	ABS	5YQ460M H5		F	Dcep	4,0 mm
SubCOR SL 731 / SWX150	ABS	3YM H5		F	Dcep	1,6-4,0 mm
SubCOR SL 735-2W / SDX S2 / SWX150	ABS	3YTM H5		F	Dcep	1,6-4,0 mm
SubCOR SL 742 / SWX150	ABS	5YQ690M H5		F	Dcep	4,0 mm
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			F.Fritzinger /	SURVEYOR	HAMBU	RG

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Note

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ABS

WELDING CONSUMABLE MARKETING CERTIFICATE

Certificate No.: AG 3733882-C-X
Report No.: AG 3733882
Port of. Augsburg / Germany
Date: 21.12.2019

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF MARKETING COMPANY, ATTEND THEIR FACILITY AT D-67317 Altleiningen / Germany, ON THE 25 DAY OF SEPTEMBER, 2019, 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 SUBMERGED ARC WELDING SECTION:

BRAND NAME (OEM)	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
SDX S2 / SWX150	ABS	3YM H5	A	F	Dcep	1,6-4,0 mm
SDX S3Si- EH12K / SWX150	ABS	5YQ460M H5		F	Dcep	4,0 mm
SubCOR SL 731 / SWX150	ABS	3YM H5		F	Dcep	1,6-4,0 mm
SubCOR SL 735-2W / SDX S2 / SWX150	ABS	3YTM H5		F	Dcep	1,6-4,0 mm
SubCOR SL 742 / SWX150	ABS	5YQ690 H5	de la companya de la	F	Dcep	4,0 mm

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WCM MKT



Certificate No.: AG 373382-D-X
Report No.: AG 3733882
Port of. Augsburg / Germany
Date: 21.12.2019

THIS IS TO CERTIFY

THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF MARKETING COMPANY, ATTEND THEIR FACILITY AT D-67317 Altleiningen / Germany, ON THE 25 DAY OF SEPTEMBER, 2019, 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:

BRAND NAME (OEM)	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
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

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Certificate	No.: AG 3733882-E-X
Report No	: AG 3733882
Port of. A	ugsburg / Germany
Date: 21.1	12.2019

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THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF MARKETING COMPANY, ATTEND THEIR FACILITY AT D-67317 Altleiningen / Germany, ON THE 25 DAY OF SEPTEMBER, 2019, 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:

BRAND <u>NAME (OEM)</u>	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
Elgacore MF 550 R	ABS	5YQ 550 SA H5	82%Ar,18%CO2	All	Dcep	1,2 mm
Elgacore MF 620 R	ABS	4YQ 620 SA H5	82%Ar,18%CO2	All, Fillet	Dcep	1,2-1,6 mm

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Certificate No.	.: AG 3733882-F-X	
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Port of. Augsburg / Germany____

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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:

BRAND NAME (OEM)	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
SDA 2	ABS	3SA - 3YSA	82%Ar,18%CO2	All	Dcep	0,8-1,6 mm
SDA 3	ABS	3SA - 3YSA	82%Ar,18%CO2	All	Dcep	0,8-1,6 mm
SDA 2	ABS	3SA - 3YSA	CO2	All	Dcep	0,8-1,6 mm
SDA 3	ABS	3SA - 3YSA	CO2	All	Dcep	0,8-1,6 mm

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WCM MKT Revision 3 Page 1 of 1



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Date: 21.12.2019

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THAT THE UNDERSIGNED SURVEYOR TO THIS BUREAU DID, AT THE REQUEST OF MARKETING COMPANY ITW Welding GmbH, ATTEND THEIR FACILITY AT D-67317 Altleiningen / Germany, ON THE 25 DAY OF SEPTEMBER, 2019 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 SUBMERGED ARC WELDING SECTION:

BRAND NAME (OEM)	SPECIFICATION	GRADE OR CLASS	SHIELDING GAS	POSITION	CURRENT/ POLARITY	SIZE
Elgacore 791	ABS Rules / Part 2	3Y SA H10	CO2	All	DCEP	1,2-1,6 mm
Elgacore 791	ABS Rules / Part 2	3Y SA H10	75% Ar, 25% CO2	All	DCEP	1,2-1,6 mm
Elgacore 881K2	ABS Rules / Part 2	5Y420 M H10	80% Ar, 20% CO2	All	DCEP	1,2 mm
Elgacore Edge	ABS Rules / Part 2	3Y SA H5	80% Ar, 20 % CO2	F	DCEP	1,2-1,6 mm

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WCM MKT Revision 3 Page 1 of 1