



WELDING CONSUMABLE CERTIFICATE

Certificate No.: AG 3491074-A-X Page 1 of 2

Report No.: AG 3491074

Port of: Augsburg / Germany

Date: 21.12.2018

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 21 DAY OF DECEMBER, 2018 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 NAME	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 / SWX110	ABS	4YM		F	dcep	2,0-4,0 mm
SDX S2Si-EM12K / SWX110 (Tandem)	ABS-Rules	3YT H5		F	DCEP(1.Head), AC (2.Head)	2,0-3,2mm
SDX S2Si-EM12K / SWX120 (Tandem)	ABS-Rules	3YT H5		F	DCEP(1.Head), AC (2.Head)	2,0-3,2mm

F.Fritzinger / SURVEYOR

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 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.



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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>
SDX S2Si-EM12K / SWX110	ABS-Rules	4YM H5		F	DCEP	2,0- 4,0mm
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	5YQ690 H5		F	Dcep	4,0 mm

F. Fritzinger / SURVEYOR
AUGSBURG

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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 21 DAY OF DECEMBER, 2018 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 620 R	ABS	4YQ620SA H5	82%Ar,18%CO2	All, Fillet	Dcep	1,2-1,6 mm
Megafil 690 R	ABS	4YQ690SA H5	82%Ar,18%CO2	F,Fillet,V,H	Dcep	1,2 mm
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 with ceramic backing material subject to satisfactory test at user's plant						
Megafil 731B	ABS	3Y400SA H5	82%Ar,18%CO2	All, V-down	Dcep	1,2 mm
Megafil 731B	ABS	3Y400SA H5	CO2	All, V-down	Dcep	1,2 mm

F. Fritzingel SURVEYOR

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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 21 DAY OF DECEMBER 27, 2018 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 821 R	ABS	3Y400SA, H5	CO2	All	Dcep	1,2-1,6 mm
Megafil 822 R	ABS	3Y400SA, H5	CO2	All	Dcep	1,2-1,6 mm
Megafil 550 R	ABS	5YQ 550 SA	82%Ar,18%CO2	All	Dcep	1,2 mm
SDA 2	ABS	3YSA, 3SA H5	CO2	All,	Dcep	1,2 mm
SDA 2	ABS	3YSA, 3SA H5	82%Ar,18%CO2	All,	Dcep	1,2 mm
SDA 3	ABS	3YSA, 3SA H5	CO2	All,	Dcep	1,2 mm
SDA 3	ABS	3YSA, 3SA H5	82%Ar,18%CO2	All,	Dcep	1,2 mm

F.Fritzingler / SURVEYOR
AUGSBURG

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