

**TEST CERTIFICATE**

Chemical Composition Prepared according to EN 10204 3.1  
Mechanical Properties Prepared according to EN 10204 2.2

<b>Certificate No</b> 523492	<b>Date</b> 06.01.2020	<b>Dispatch No</b> 40082
<b>Customer</b> ALUNOX SCHWEISSTECHNIK GMBH		
<b>Product Name</b> MG 2	<b>Approvals</b> ABS, CWB, DB, DNV-GL, HAKC, HAKC(1.00mm), HAKC(1.20mm), HAKC(1.60mm), RINA, TL, TUV	
<b>Standards</b> AWS/ASME SFA - 5.18 ER70S-6, EN ISO 14341 - A G 42 3 C1 G 3Si1, EN ISO 14341 - A G 42 4 M21 G 3Si1, TS EN ISO 14341 - A G 42 3 C1 G 3Si1, TS EN ISO 14341 - A G 42 4 M21 G 3Si1		

**Solid Wire/Chemical Analysis(%)**

Lot No	Diameter (mm)	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Al	Zr
34313001	1.00	0,076	0,894	1,504	0,01	0,012	0,026	0,011	0,006	0,064	0,007	0,003	0,004	0,009

**All-Weld-Metal Mechanical Properties - (Gas M21)**

Lot No	Diameter(mm)	Quantity(kg)	Tensile Strength	Yield Strength	Elongation(%)	Impact Energy(J)(-40)
34313001	1.00	1080	530	430	28	55

We hereby certify that the product described above "complies with the term of the order" and "comforms with the related international standards."

Certification Services



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<b>Certificate No</b> 522929	<b>Date</b> 23.12.2019	<b>Dispatch No</b> 39333
<b>Customer</b> ALUNOX SCHWEISSTECHNIK GMBH		
<b>Product Name</b> MG 2	<b>Approvals</b> ABS, CWB, DB, DNV-GL, HAKC, HAKC(1.00mm), HAKC(1.20mm), HAKC(1.60mm), RINA, TL, TUV	
<b>Standards</b> AWS/ASME SFA - 5.18 ER70S-6, EN ISO 14341 - A G 42 3 C1 G 3Si1, EN ISO 14341 - A G 42 4 M21 G 3Si1, TS EN ISO 14341 - A G 42 3 C1 G 3Si1, TS EN ISO 14341 - A G 42 4 M21 G 3Si1		

**Solid Wire/Chemical Analysis(%)**

Lot No	Diameter (mm)	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Al	Zr
34277001	1.00	0,077	0,876	1,504	0,008	0,012	0,028	0,008	0,005	0,066	0,007	0,003	0,006	0,009
34278003	1.00	0,084	0,886	1,5	0,01	0,016	0,025	0,007	0,005	0,064	0,007	0,005	0,007	0,01
34279002	1.00	0,078	0,863	1,482	0,014	0,012	0,029	0,007	0,005	0,064	0,008	0,004	0,007	0,01
34313001	1.00	0,076	0,894	1,504	0,01	0,012	0,026	0,011	0,006	0,064	0,007	0,003	0,004	0,009
34313002	1.00	0,078	0,877	1,493	0,009	0,012	0,024	0,01	0,006	0,065	0,006	0,003	0,004	0,009

**All-Weld-Metal Mechanical Properties - (Gas M21)**

Lot No	Diameter(mm)	Quantity(kg)	Tensile Strength	Yield Strength	Elongation(%)	Impact Energy(J)(-40)
34277001	1.00	1080	530	430	28	55
34278003	1.00	2160	530	430	28	55
34279002	1.00	1080	530	430	28	55
34313001	1.00	1080	530	430	28	55
34313002	1.00	1080	530	430	28	55

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<b>Certificate No</b> 522928	<b>Date</b> 23.12.2019	<b>Dispatch No</b> 39333
<b>Customer</b> ALUNOX SCHWEISSTECHNIK GMBH		
<b>Product Name</b> MG 3	<b>Approvals</b> DB, DNV-GL, TUV	
<b>Standards</b> AWS/ASME SFA - 5.18 ER70S-6, EN ISO 14341 - A G 46 4 C1 G 4Si1, EN ISO 14341 - A G 46 4 M21 G 4Si1, TS EN ISO 14341 - A G 46 4 C1 G 4Si1, TS EN ISO 14341 - A G 46 4 M21 G 4Si1		

**Solid Wire/Chemical Analysis(%)**

Lot No	Diameter (mm)	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	V	Ti	Al	Zr
34235001	1.00	0,067	0,908	1,743	0,011	0,016	0,034	0,013	0,006	0,068	0,008	0,004	0,007	0,01
34280002	1.00	0,09	0,958	1,679	0,004	0,012	0,025	0,01	0,004	0,064	0,009	0,004	0,01	0,011
34281001	1.00	0,088	0,947	1,648	0,004	0,01	0,032	0,012	0,004	0,063	0,01	0,004	0,011	0,011

**All-Weld-Metal Mechanical Properties - (Gas C1)**

Lot No	Diameter(mm)	Quantity(kg)	Tensile Strength	Yield Strength	Elongation(%)	Impact Energy(J)(-40)
34235001	1.00	1080	570	480	28	55
34280002	1.00	1080	570	480	28	55
34281001	1.00	1080	570	480	28	55

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