

TEST CERTIFICATE

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

| | | |
|--|--|------------------------------|
| Certificate No 534227 | Date 15.09.2020 | Dispatch No 2020000004507 |
| Customer ALUNOX SCHWEISSTECHNIK GMBH | | |
| Product Name MG 2 | Approvals ABS, CWB, DB, DNV-GL, HAKC, HAKC(1.00mm), HAKC(1.20mm), HAKC(1.60mm), RINA, TL, TUV | |
| Standards 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 |
|----------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 27041060 | 1.00 | 0,064 | 0,836 | 1,348 | 0,004 | 0,017 | 0,046 | 0,028 | 0,009 | 0,098 | 0,006 | 0,009 | 0,004 | 0,008 |
| 27041061 | 1.00 | 0,064 | 0,9 | 1,467 | 0,005 | 0,017 | 0,04 | 0,024 | 0,008 | 0,096 | 0,006 | 0,01 | 0,006 | 0,01 |
| 27041087 | 1.00 | 0,069 | 0,893 | 1,459 | 0,004 | 0,016 | 0,027 | 0,018 | 0,005 | 0,092 | 0,006 | 0,012 | 0,006 | 0,007 |
| 27041090 | 1.00 | 0,067 | 0,931 | 1,439 | 0,004 | 0,015 | 0,04 | 0,028 | 0,011 | 0,098 | 0,008 | 0,014 | 0,006 | 0,011 |
| 27041091 | 1.00 | 0,066 | 0,871 | 1,469 | 0,004 | 0,014 | 0,039 | 0,023 | 0,007 | 0,097 | 0,006 | 0,011 | 0,008 | 0,011 |
| 27041093 | 1.00 | 0,064 | 0,856 | 1,467 | 0,006 | 0,016 | 0,04 | 0,019 | 0,007 | 0,091 | 0,006 | 0,011 | 0,009 | 0,01 |
| 27041098 | 1.00 | 0,069 | 0,884 | 1,458 | 0,006 | 0,015 | 0,043 | 0,016 | 0,006 | 0,085 | 0,006 | 0,01 | 0,005 | 0,01 |
| 27041099 | 1.00 | 0,073 | 0,876 | 1,47 | 0,005 | 0,015 | 0,036 | 0,018 | 0,006 | 0,087 | 0,006 | 0,011 | 0,005 | 0,01 |

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

| Lot No | Diameter(mm) | Quantity(kg) | Tensile Strength (N/mm2) | Yield Strength (N/mm2) | Elongation(%) | Impact Energy(J)(-40) |
|----------|--------------|--------------|--------------------------|------------------------|---------------|-----------------------|
| 27041060 | 1.00 | 1080 | 530 | 430 | 28 | 55 |
| 27041061 | 1.00 | 1080 | 530 | 430 | 28 | 55 |
| 27041087 | 1.00 | 1080 | 530 | 430 | 28 | 55 |
| 27041090 | 1.00 | 1080 | 530 | 430 | 28 | 55 |
| 27041091 | 1.00 | 1080 | 530 | 430 | 28 | 55 |
| 27041093 | 1.00 | 1080 | 530 | 430 | 28 | 55 |
| 27041098 | 1.00 | 2160 | 530 | 430 | 28 | 55 |
| 27041099 | 1.00 | 1080 | 530 | 430 | 28 | 55 |

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

Certification Services

