

TEST CERTIFICATE

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

| | | |
|--|------------------------------|----------------------|
| Certificate No 517804 | Date 17.09.2019 | Dispatch No 33612 |
| Customer ALUNOX SCHWEISSTECHNIK GMBH | | |
| Product Name MG 3 | Approvals DB, DNV-GL, TUV | |
| Standards 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 |
|----------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 24115942 | 1.20 | 0,074 | 0,935 | 1,659 | 0,01 | 0,011 | 0,025 | 0,032 | 0,005 | 0,095 | 0,007 | 0,002 | 0,006 | 0,008 |
| 24220531 | 1.20 | 0,065 | 0,847 | 1,653 | 0,007 | 0,012 | 0,023 | 0,04 | 0,004 | 0,114 | 0,006 | 0,001 | 0,006 | 0,008 |
| 24332990 | 1.20 | 0,073 | 1,004 | 1,639 | 0,009 | 0,012 | 0,024 | 0,026 | 0,004 | 0,087 | 0,007 | 0,002 | 0,008 | 0,009 |
| 27941021 | 0.80 | 0,08 | 0,976 | 1,637 | 0,005 | 0,015 | 0,027 | 0,03 | 0,01 | 0,098 | 0,007 | 0,01 | 0,006 | 0,01 |

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

| Lot No | Diameter(mm) | Quantity(kg) | Tensile Strength | Yield Strength | Elongation(%) | Impact Energy(J)(-40) |
|----------|--------------|--------------|------------------|----------------|---------------|-----------------------|
| 24115942 | 1.20 | 1080 | 570 | 480 | 28 | 55 |
| 24220531 | 1.20 | 2160 | 570 | 480 | 28 | 55 |
| 24332990 | 1.20 | 8640 | 570 | 480 | 28 | 55 |
| 27941021 | 0.80 | 2160 | 570 | 480 | 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

**MAGMAWELD ULUSLARARASI TİCARET A.Ş.**

Headquarters: Bilim Sok. Sun Plaza 5/7 Maslak 34398 İstanbul, Türkiye T: +90 212 411 14 00 F: +90 212 598 92 78 Yenikapı V.D. 6120071915 Mersis No: 0612007191500013
Export: Organize Sanayi Bölgesi 2. Kısım 45030, Manisa, Türkiye | info@magmaweld.com

TEST CERTIFICATE

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

| | | |
|--|------------------------------|----------------------|
| Certificate No 520659 | Date 14.10.2019 | Dispatch No 35133 |
| Customer ALUNOX SCHWEISSTECHNIK GMBH | | |
| Product Name MG 3 | Approvals DB, DNV-GL, TUV | |
| Standards 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 |
|----------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 24220531 | 1.20 | 0,065 | 0,847 | 1,653 | 0,007 | 0,012 | 0,023 | 0,04 | 0,004 | 0,114 | 0,006 | 0,001 | 0,006 | 0,008 |
| 27941018 | 1.20 | 0,077 | 0,964 | 1,634 | 0,006 | 0,014 | 0,031 | 0,035 | 0,01 | 0,089 | 0,007 | 0,012 | 0,006 | 0,01 |
| 27941019 | 1.20 | 0,076 | 0,941 | 1,662 | 0,006 | 0,016 | 0,031 | 0,034 | 0,01 | 0,097 | 0,007 | 0,011 | 0,005 | 0,01 |
| 27941020 | 1.00 | 0,074 | 0,953 | 1,667 | 0,006 | 0,016 | 0,027 | 0,033 | 0,009 | 0,104 | 0,007 | 0,01 | 0,005 | 0,01 |
| 27941020 | 1.20 | 0,074 | 0,953 | 1,667 | 0,006 | 0,016 | 0,027 | 0,033 | 0,009 | 0,104 | 0,007 | 0,01 | 0,005 | 0,01 |
| 27941021 | 1.00 | 0,077 | 0,963 | 1,653 | 0,005 | 0,016 | 0,027 | 0,031 | 0,009 | 0,099 | 0,007 | 0,01 | 0,005 | 0,01 |

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

| Lot No | Diameter(mm) | Quantity(kg) | Tensile Strength | Yield Strength | Elongation(%) | Impact Energy(J)(-40) |
|----------|--------------|--------------|------------------|----------------|---------------|-----------------------|
| 24220531 | 1.20 | 3240 | 570 | 480 | 28 | 55 |
| 27941018 | 1.20 | 2160 | 570 | 480 | 28 | 55 |
| 27941019 | 1.20 | 8640 | 570 | 480 | 28 | 55 |
| 27941020 | 1.00 | 2160 | 570 | 480 | 28 | 55 |
| 27941020 | 1.20 | 2160 | 570 | 480 | 28 | 55 |
| 27941021 | 1.00 | 1080 | 570 | 480 | 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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