


CEWELD AlMg 5 Tig

| TYPE | Tig filler metal for welding Aluminium Magnesium alloys. | | | | | | | | | | | | |
|---|--|----------------------|-------------------------|----------------------|--------------------|----------|-----------|-----|-----|-----|-----|------|---|
| APPLICATIONS | Filler metal for welding Aluminium alloys with maximum 5% Magnesium. This Magnesium alloyed Aluminium wire, thanks to its excellent corrosion resistance and its high mechanical properties is mainly used in ship yards, car and railway industry. | | | | | | | | | | | | |
| PROPERTIES | Excellent weldability and good mechanical strength combined with good corrosion resistance are typical for this alloy. The weld deposit is free from porosity due to the special shaving process and cleaning method during production. AlMg5 is one of the most popular types within the range of aluminum alloys and covers a weight range of alloys. Thicker sections should be preheated (150°C) prior to welding. | | | | | | | | | | | | |
| CLASSIFICATION | AWS A 5.10: ER5356 EN ISO 18273: S Al 5356 (AlMg5Cr(A)) F-nr 22 | | | | | | | | | | | | |
| SUITABLE FOR | Aluminium alloys: AlMg3, AlMg4, AlMg5, AlMgSi0.5, AlMgSi1; AlMgMn, AlZnMg1, G-AlMg3Si, G-AlMg5Si, G-AlMg10, AlMg1SiCu, AlMgSi0,7, AlZn4,5Mg1, AlZnMg4,5Mn, AlZn5,5Mg1, AlSi1MgMn, AlSiMg(A), 3.3545, 3.3206, 3.3210, 3.2315, 3.3211, 3.4335, EN AW 5086, EN AW 6060, EN AW 6005A, EN AW , EN AW 6061, EN AW 7020, EN AW 7021 EN AC 51400, EN AC 51300, EN AC 51100, EN AW 5454 | | | | | | | | | | | | |
| APPROVALS | CE | | | | | | | | | | | | |
| WELDING POSITIONS |  | | | | | | | | | | | | |
| TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%) | <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Si</th> <th>Mn</th> <th>Cr</th> <th>Ti</th> <th>Al</th> <th>Mg</th> </tr> </thead> <tbody> <tr> <td>0.2</td> <td>0.1</td> <td>0.1</td> <td>0.1</td> <td>Rem.</td> <td>5</td> </tr> </tbody> </table> | Si | Mn | Cr | Ti | Al | Mg | 0.2 | 0.1 | 0.1 | 0.1 | Rem. | 5 |
| Si | Mn | Cr | Ti | Al | Mg | | | | | | | | |
| 0.2 | 0.1 | 0.1 | 0.1 | Rem. | 5 | | | | | | | | |
| MECHANICAL PROPERTIES | <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Heat Treatment</th> <th>R_{p0,2} (MPa)</th> <th>R_m (MPa)</th> <th>A₅ (%)</th> <th>Hardness</th> </tr> </thead> <tbody> <tr> <td>As Welded</td> <td>127</td> <td>285</td> <td>27</td> <td>HRc</td> </tr> </tbody> </table> | Heat Treatment | R _{p0,2} (MPa) | R _m (MPa) | A ₅ (%) | Hardness | As Welded | 127 | 285 | 27 | HRc | | |
| Heat Treatment | R _{p0,2} (MPa) | R _m (MPa) | A ₅ (%) | Hardness | | | | | | | | | |
| As Welded | 127 | 285 | 27 | HRc | | | | | | | | | |
| REDRYING | Not required | | | | | | | | | | | | |
| GAS ACC. EN ISO 14175 | 11, 13 | | | | | | | | | | | | |



CEWELD ALMg 5 Tig

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|-------------------------|-----------|---------|---------------|
| ALMG 5 TIG 1,2 X 1000MM | Packaging | KG/unit | EanCode |
| | Tube | 5 | 8720663407382 |
| ALMG 5 TIG 1,6 X 1000MM | Packaging | KG/unit | EanCode |
| | Tube | 5 | 8720663407399 |
| ALMG 5 TIG 2,0 X 1000MM | Packaging | KG/unit | EanCode |
| | Tube | 5 | 8720663407405 |
| ALMG 5 TIG 2,4 X 1000MM | Packaging | KG/unit | EanCode |
| | Tube | 5 | 8720663407412 |
| ALMG 5 TIG 3,2 X 1000MM | Packaging | KG/unit | EanCode |
| | Tube | 5 | 8720663407429 |
| ALMG 5 TIG 4,0 X 1000MM | Packaging | KG/unit | EanCode |
| | Tube | 5 | 8720663407436 |
| ALMG 5 TIG 5,0 X 1000MM | Packaging | KG/unit | EanCode |
| | Tube | 5 | 8720663407443 |