

CEWELD AlMg 4.5Mn

| TYPE | Mig aluminium welding wire with high corrosion resistance | | | | | | | | |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----|-----|------|----|------|-----|--|
| APPLICATIONS | Filler metal for Magnesium and Manganese alloyed Aluminium with a maximum Magnesium content of 5%. This alloy shows very good mechanical properties that make it ideal for applications in shipyards, in car and railway industry and constructions of reservoirs and tanks. | | | | | | | | |
| PROPERTIES | Excellent weldabillity and good mechanical strength combined with good corrosion resistance against seawater are typical for this alloy. The weld deposit is free from porosity due to the special shaving process and cleaning method during production. AlMg4,5Mn is one of the highest grades within the range of aluminum alloys and covers a weight range of alloys. Thicker sections should be preheated (150°C) prior to welding. Qualified by Lloyds for manual and (semi)automatic welding. | | | | | | | | |
| CLASSIFICATION | EN ISO 18 F-nr 22 | A 5.10: ER5183 18273: S Al 5183 (AlMg4,5Mn0,7(A)) 22 3.3548 | | | | | | | |
| SUITABLE FOR | Aluminium alloys: AlMg4,5Mn, AlMg5, AlMg2Mn0,8, AlZnMg1, AlZnMgCu0,5, AlMgSi0,5, AlMgSi1,AlMgSi0,5, G-AlMg10, G-AlMg5, G-AlMg3Si, G-AlMg5Si, 3.2315, 3.3545, 3.3547, 3.3535, 3.3555, 3.3206, 3.3210, 3.2315, 3.3211, 3.4335, EN AW 5086, EN AW 5083, EN AW 5019, EN AW 5019, EN AW 6060, EN AW 6005A, EN AW 6082, EN AW 6061, EN AW 7020, EN AC 51300, EN AC 51400,EN AW-6082 | | | | | | | | |
| APPROVALS | CE Lloyds (MATS/NTH-1043/7/1) | | | | | | | | |
| WELDING POSITIONS | PA PB PC PD PE PF PG | | | | | | | | |
| TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%) | Mn | | Cr | | Ti | | Al | Mg | |
| | 0.7 | 0.1 | | | 0.15 | F | Rem. | 4.5 | |
| ALL WELD MECHANICAL PROPERTIES | Heat R _{P0,2} Rm A5 Impact Energy (J) ISO-V | | | | | | | | |
| | Treatment | MPa | MPa | (%) | | RT | | | |
| | As Welded / | 140 | 300 | 18 | | | 30 | | |
| REDRYING TEMPERATURE | Not required | | | | | | | | |
| | 11 12 | | | | | | | | |

GAS ACCORDING EN 14175 I1, I3

Certilas THE FILLER METAL SPECIALIST