

CLASSIFICATIONS

EN ISO 18273	AWS A5.10
S Al 5356 (AlMg5Cr(A))	ER5356

KEY FEATURES AND APPLICATIONS

- Solid aluminium wire with a minimum Mg content of 4.5%.
- Exceptional ductility and superior corrosion resistance, particularly in seawater environments.
- Offers an excellent colour match with anodised parts.
- For heavy parts and thicker plates, preheating to 150°C is recommended.
- Widely used in a variety of industries, including shipbuilding, automotive and railway sectors.

BASE MATERIALS

AlMg3, AlMg4, AlMg5, AlMgSi1, AlMgSi0,5, AlMgMn, AlZnMg1, G-AlMg3Si, G-AlMg5Si, G-AlMg10, AlMg1SiCu, AlMgSi0,7, AlZn4,5Mg1, AlZnMg4,5Mn, AlZn5,5Mg1, AlSi1MgMn, AlSiMg(A), AlMg 1

CHEMICAL COMPOSITION OF ALL-WELD METAL %

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Be
MIN	-	-	-	0.05	4.5	0.05	-	0.06	-	-
MAX	0.25	0.40	0.10	0.20	5.5	0.20	0.10	0.20	Rem	0.003

Single values are maximum values according to EN ISO 18273

MECHANICAL PROPERTIES OF ALL-WELD METAL - TYPICAL VALUES

Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)
≥110	≥235	≥17

Test data for mechanical properties are not guaranteed since actual as welded conditions depend on numerous variables

OPERATING DATA

Shielding Gases	Polarity
EN ISO 14175 - I1	AC

PACKAGING AND AVAILABLE SIZES

Part Number	Diameter (mm)	Length (mm)	Weight (kg)	Packaging
XP25316	1.6	1000	2.5	PAP 20 Tube
XP25320	2.4	1000	2.5	PAP 20 Tube
XP25322	3.2	1000	2.5	PAP 20 Tube