

XP ER 4043

ALUMINIUM

CLASSIFICATIONS

EN ISO 18273	AWS A5.10
S Al 4043 (AlSi5)	ER4043

KEY FEATURES AND APPLICATIONS

- Solid aluminium wire with a minimum Si content of 4.5%.
- The increased silicon content enhances fluidity and reduces susceptibility to weld cracking.
- Suitable for welding aluminium castings containing up to 7% silicon, also Al-Mg-Si alloys which are containing up to 2 % Magnesium as alloying elements.
- For heavy parts and thicker plates, preheating to 150°C is recommended.
- Widely used in a variety of industries, such as automotive manufacturing, bicycle and motorcycle frame production.

BASE MATERIALS

AlMgSi 0, AlSiMg (A), AlSi 1 MgMn, AlMg1SiCu, AlCuMg 1, AlMgSi 1, AlZn 4,5 Mg 1

CHEMICAL COMPOSITION OF WIRE %

	Si	Fe	Cu	Mn	Mg	Zn	Ti	Al	Be
MIN	4.5	-	-	-	-	-	-	-	-
MAX	6.0	0.8	0.30	0.05	0.05	0.10	0.20	Rem	0.0003

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 (%)
≥40	≥120	≥8

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
XP25308	1.6	1000	2.5	PAP 20 Tube
XP25310	2.4	1000	2.5	PAP 20 Tube
XP25312	3.2	1000	2.5	PAP 20 Tube