



CEWELD AlSi 12 Tig

TYPE Aluminium silicon alloy for welding cast aluminum parts, also suitable as brazing alloy with suitable flux.

APPLICATIONS Aluminium alloy for welding and brazing. This material is generally used for brazing aluminium sheets, for extrusions and castings. (After anodizing the weld will be of a different color)

PROPERTIES CEWELD® AlSi12 Tig was originally developed as a brazing alloy to take advantage of its low melting point and narrow freezing range. In addition, it has a higher silicon content than AlSi5, which provides increased fluidity and reduced shrinkage. Hot cracking is significantly reduced when using AlSi12 as a filler alloy. The alloy may be used in applications at sustained elevated temperatures. Non-heat treatable. Thicker sections should be preheated (150°C) prior to welding.

CLASSIFICATION

AWS	A 5.10: ER4047A
EN ISO	18273: S Al 4047A (AlSi12(A))
W.Nr.	3.2885
F-nr	23

SUITABLE FOR G-AlSi10Mg, G-AlSi11 G-AlSi12 (Cu), G-AlSi7Mg, G-AlSi6Cu4 , G-AlSi9Mg, G-AlSi9Cu3, 4145, 3.2581, 3.2583, 3.2381, 3.2383, 3.2373, 3.2163, 3.2371, 3.2151, B 413.0, 361.0, 359.0, 356.0, 319.0, Cast aluminium

APPROVALS CE

WELDING POSITIONS



TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

Si	Mn	Ti	Fe	Cu	Zn	Al	Mg
12	0.08	0.05	0.15	0.01	0.01	Rem.	0.01

MECHANICAL PROPERTIES

Heat Treatment	R _{P0.2} (MPa)	R _m (MPa)	A ₅ (%)	Hardness
As Welded	75	140	12	HRc

REDRYING Not required

GAS ACC. EN ISO 14175 I1, I3



CEWELD ALSi 12 Tig

ALSI 12 TIG 1,6 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663407665
ALSI 12 TIG 2,0 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663407658
ALSI 12 TIG 2,4 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663407672
ALSI 12 TIG 3,2 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663407689
ALSI 12 TIG 4,0 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663407696
ALSI 12 TIG 5,0 X 1000MM	Packaging	KG/unit	EanCode
	Tube	5	8720663407702