

ALUMINIUM ALLOYS FOR CONNECTION HEADS

Aluminium connection heads are used in industry as rugged terminal junction boxes for building temperature sensors, pressure transmitters, level transmitters, electronic transmitter housing, etc. Aluminium enclosures are also often exposed to conditions which can cause corrosion and they must be protected against this.

ALUMINIUM CASTING METHOD

Limatherm uses pressure die-casting method to produce aluminium enclosures.

ALUMINIUM ALLOYS

Limatherm uses as a standard alloy:

POLISH STANDARD	COMPARABLE TO THE POLISH STANDARD	
	GERMAN STANDARD	EUROPEAN STANDARD
AK 93	GD - AlSi9Cu3 No. 226	EN AC - AlSi9Cu3
		EN AC - 46 000

Limatherm can use on request alloy:

POLISH STANDARD	COMPARABLE TO THE POLISH STANDARD	
	GERMAN STANDARD	EUROPEAN STANDARD
AK 11	GD - AlSi12(Cu) No. 231	EN AC - AlSi12Cu1
		EN AC - 47100

Limatherm can use on request cooper free alloy:

POLISH STANDARD	COMPARABLE TO THE POLISH STANDARD	
	GERMAN STANDARD	EUROPEAN STANDARD
AK 11 B	GD - AlSi12 No. 230	EN AC - AlSi12 mod
		EN AC - 44200 mod

mod - modified, with increased content of Fe = 0,8 + 1,2

Standard												
Alloy	Si (%)	Fe (%)	Cu (%)	Mn (%)	Mg (%)	Ni (%)	Pb (%)	Sn (%)	Ti (%)	Zn (%)	AL	
AK 93*	8 +11	1.2	2 +3.5	0.1 +0.5	0.1+0.5	0.3	0.2	0.1	0.15	1.2	Rest	
GD–AlSi9Cu3 3.2163.05 Alloy No 226	8 +11	1.2	2 + 3.5	0.1 +0,5	0.1 + 0,5	0.3	0.2	0.1	0.15	1.2		
EN AC–AlSi9Cu3	8 +11	1.3	2 + 4	0.55	0.05 +0.55	0.55	0.35	0.25	0.25	1.2		
On request: reduced copper content												
AK 11**	10 +13	1.4	0.8	0.5	0.3	0,5	–	–	–	0,3		
GD–AlSi12(Cu) 3.2982.05 Alloy No 231	10.5+13.5	1.2	1.2	0.1+0.5	0.1+0.5	0,2	0,2	0,1	0,15	0,5		
EN AC–AlSi12Cu1	10.5+13.5	1.3	0.7+1.2	0.55	0.35	0.3	0.1	0.2	0.2	0.55		
On request: cooper free												
AK 11B**	10.5+13.5	0.8+1.2	0.05	0,5	0,3	0,5	–	–	–	0.3		
GD–AlSi12 3.2586 Alloy No 230	10.5+13.5	1.0	0.10	0.1+0.5	0.4	0.2	0.2	0.1	0.15	0.5		
EN AC–AlSi12	10.5+13.5	0.55	0.05	0.35	–	–	–	–	0.15	0.1		

*Alloy available for all heads (optionally in XD-A ATEX and IECEx heads)

**Alloy available for some types of heads (detailed information in the sales department)