

Casting material

ANTICORODAL[®] - 71

G-AlSi7Mg0.3

This hardenable alloy is highly suitable for sand, coquille and low-pressure coquille casting. For coquille casting (sand casting on request), the alloy can also be supplied with a permanent modification. ANTICORODAL[®] - 71 is preferred for cast parts with high electrical conductivity. ANTICORODAL[®] - 71 is manufactured from virgin aluminium in order to keep the content of manganese, chromium and titanium low. 27 – 29 m/Ωmm² can be used as guiding values for the achievable electrical conductivity.

Cast parts made from ANTICORODAL[®] - 71 are noted for their high strength and toughness. Corrosion resistance to water and weather is excellent, weldability and machining properties are very good.

The shine of cast parts made from ANTICORODAL[®] - 71 is very good after mechanical polishing.

Composition in % by mass:

Si	Fe	Cu	Mn	Mg	Zn	Ti
6.5 – 7.5	0.15	0.01	0.01	0.3 – 0.45	0.07	0.01

We supply Anticorodal[®] - 71 with a permanent strontium modification on request.

Mechanical properties:

The values not in parentheses were determined on separately cast test rods.

The values in parentheses can be achieved in cast parts of up to 20 mm using an appropriate melting and casting technique.

Process condition	0.2% Yield strength $R_{p0.2}$ [N/mm ²]	Tensile strength R_M [N/mm ²]	Ductile yield A [%]	Brinell hardness HB
Coquille T7	160 – 200 (150)	220 – 250 (210)	4 – 6 (3)	70 – 80 (70)
Sand T7	160 – 200 (150)	220 – 250 (210)	2 – 4 (3)	70 – 80 (70)

Alloy ANTICORODAL[®]-71 is delivered exclusively in the form of ingots produced through horizontal continuous casting (HCC). In this way, we offer the following advantages:

- Less scrap through maximum metal purity and uniformity
- Clean ingots without oxide inclusions
- No hard non-metallic inclusions
- Low gas content in the ingots thanks to inline degassing during production
- Lower costs through
 - Reduced metal loss during melting
 - Good and safe stackability
 - Low space requirements thanks to compact pig bunches

SAG

Materials Group

Aluminium Lend GmbH & Co KG

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Progress in Aluminium



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