

Casting material**PERALUMAN® - 34****EN AB-AIMg3(a) / EN AB 51100**

PERALUMAN® - 34 is an aluminium-magnesium casting alloy made from virgin aluminium, which can be processed well in sand and coquille casting. It can also be die cast. Not recommended for use in low-pressure coquille casting. PERALUMAN® - 34 is not easy to cast due to the long solidifying interval.

The iron content of the alloy is compensated for by the balanced addition of manganese, thus the alloy is noted for its high ductile yield and impact strength. PERALUMAN® - 34 is excellently machinable and exhibits an outstanding shine after mechanical polishing. The alloy is excellently suited for decorative anodic oxidation. The alloy is therefore particularly used for decorative parts of internal and external architecture (coatings), household devices and equipment in the food industry.

Composition in % by mass:

Si	Fe	Cu	Mn	Mg	Zn	Ti
0.40	0.3	0.03	0.2-0.4	2.7 – 3.5	0.10	0.01-0.15

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 F	70 – 100 (70)	150 – 210 (150)	5 – 16 (4)	50 – 65 (50)
Sand F	70 – 100 (60)	140 – 190 (130)	3 – 8 (3)	50 – 65 (45)

Alloy PERALUMAN® - 34 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

Contact: