

## CHEMISTRY

Element	%
Ti	2.7-3.3
B	0.8-1.2
Fe	0.30 max
Si	0.30 max
V	0.13 max
Others each	0.05 max
Others total	0.10 max



Sample to be taken from mid coil.

## FORM

Aluminium rod of diameter  $9.7 \pm 0.3 \text{mm}$

Coil weight  $180 \text{kg} \pm 10\%$

Colour code blue/white

## MICROSTRUCTURE

$\text{TiAl}_3$  90% <  $50 \mu\text{m}$   
95% <  $100 \mu\text{m}$   
99% <  $200 \mu\text{m}$

$\text{TiB}_2$  95% of particles <  $2 \mu\text{m}$   
99% of particles <  $5 \mu\text{m}$   
The total length of  $\text{TiB}_2$  agglomerates should not exceed  $25 \mu\text{m}/\text{cm}^2$

Oxides The total length of oxides should not exceed  $500 \mu\text{m}/\text{cm}^2$

Others Graphite, silicon, carbides, refractory materials and foreign bodies shall not be permitted

## GRAIN REFINING

1. Grain refining according to AA TP-1 test to achieve a grain size of  $110 \mu\text{m}$  (max) after 2 minutes
2. AMG's Advanced DC casting test

## MARKING AND PACKAGING

3 coils per pallet, separated by wooden spacers, water proof wrapped and strapped. Each coil shall be identified by means of label showing:

1. Alloy type
2. Coil weight
3. An identification number
4. Supplier's name

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