

# NIOBIUM ALUMINUM TITANIUM 60:35:5

GfE Spec.

2000 183

## Alloy

NbAlTi 60:35:5

## Application

Alloy for the production of titanium alloys

## Production method

GfE two-step process

1st step: metallothermic reduction

2nd step: vacuum induction melting  
and casting

## Size

20 mesh, respectively < 0.8 mm

## Packaging

200 kg in sealed steel drums

## Composition

	spec. (wt. %)
Nb	55-60
Al	35-40
Ti	0-5
B	max. 0.005
C	max. 0.05
Co	max. 0.010
Cr	max. 0.01
Cu	max. 0.01
Fe	max. 0.2
Mn	max. 0.01
Mo	max. 0.02
Ni	max. 0.01
Ta	max. 0.2
V	max. 0.02
W	max. 0.02
Y	max. 0.005
N	max. 0.05
O	max. 0.15

## Physical Data

Tapping temperature	1650 °C
	3002 °F
Solidus/liquidus point	1550-1600 °C
	2822-2912 °F
True density	4.4 g/cm <sup>3</sup>
	2460 °F