TiCrMn 37:37:26

GfE Art. No. 2026393 / 2026384

Application

TiCrMn 37:37:26 is a low temperature AB_2 type Hydrogen Storage Alloy (HSA) for applications at ambient temperature. The alloy is capable to absorb Hydrogen from the gas phase at low temperatures and gas pressures and to form reversible metal hydrides.
Therefore, TiCrMn 37:37:26 is considered as suitable candidate for the storage of Hydrogen e.g. in fuel cell systems.

Production Method

Vacuum induction melting

Available sizes of TiCrMn 37:37:26:

0 - 2 mm (GfE Art. No. 2026393)
0 - 10 mm (GfE Art. No. 2026384)
Allowance for oversize up to 5 %.

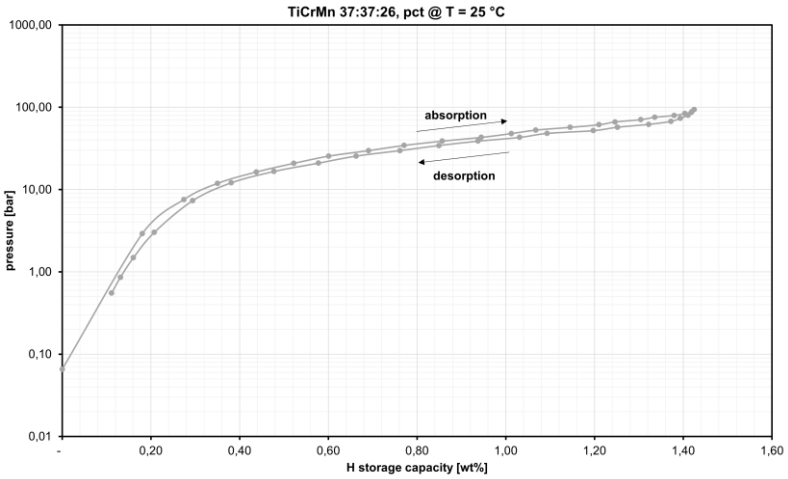
Physical properties (for information only – not guaranteed)

Real density approx. 6.0 kg/dm³
Bulk density (both sizes) approx. 3.2 kg/dm³

Packaging

In sealed steel drums

Typical pct characteristics @ 25 °C



Chemical Analysis in wt% (typical values)

Ti	35.0 – 39.0
Cr	35.0 – 39.0
Mn	24.0 – 28.0
Al + Fe	max. 0.6
Si	max. 0.05
N	max. 0.05
O	max. 0.7

Typical Hydriding Properties

Maximum storage capacity: approx. 1.4 wt% @ 25 ºC (pressure p < 100 bar)

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