## As ductile as titanium, as light as aluminium





Aluminum based alloy that comes up with a density of

2.67g/cm<sup>3</sup>



High performance alloy that offers a tensile strength of

Highest strength

520 MPa



## High ductility

The material offers an extraordinary level of ductility with

13% Elongation at Break



AlSi10Mg

What is unique about Scalmalloy®?

## Aluminum Scalmalloy®

Ti6Al4V

Scalmalloy® unites the best of both "worlds" – Titanium and



## Very good weldability

- Very good corrosion resistance
- Excelent (low) coefficient of thermal expansion
- Very stable microstructure at high temperatures up to 250°C
- Excellent characteristics for conventional machining process
- Excellent application of various conventional anodizing processes

# to your products

Scalmalloy® creates added value to your parts and economic benefit

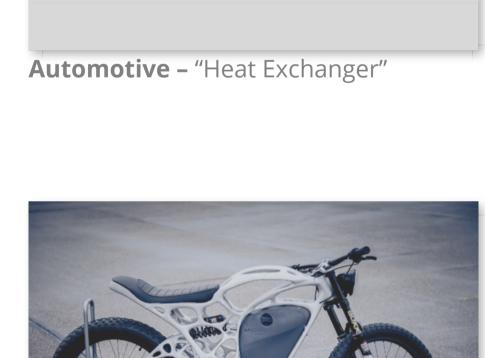
"Combining the benefits of metallic 3D printing with new materials

can greatly expand the possibilities for modern components"

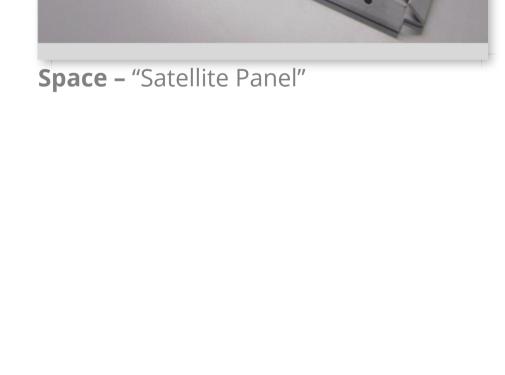
Scalmalloy® in various applications



Aerospace - "Bracket"



Others - "Light Rider"



# Start of production with Scalmalloy® on shortest time

How to become a Scalmalloy® user?

M&C CNC-Technik GmbH

Standardized Scalmalloy® certification process for all powder-bed SLM machines available

Poly-Shape Any-Shape S.A.

Certified Scalmalloy® manufacturing partners

ZARE Srl

Pankl Racing Systems AG

**ASRC Federal Astronautics** 

MBFZ toolcraft GmbH

School of Engineering (University of Cádiz) Documents and Materials on Scalmalloy®

Material Data

## Scalmalloy® material is designed to be processed using Laser Powder Bed Additive Layer Manufacturing (ALM) processes. Due to the high cooling rates and rapid

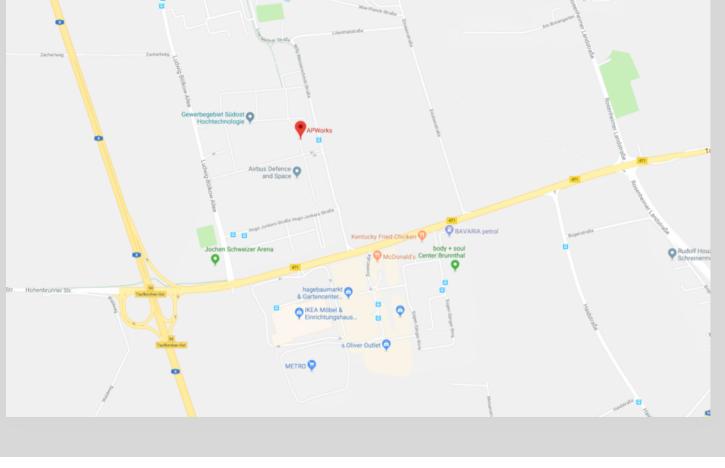
highest grade aluminium foundry products. Material Data Sheet – Scalmalloy®

Contact Us

■ Scalmalloy® Overview

solidification, a unique microstructure is achieved which rivals the performance of the

☑ Certification



Mail: sales@apworks.de

Tel.: +49 (0)89 9547 38766