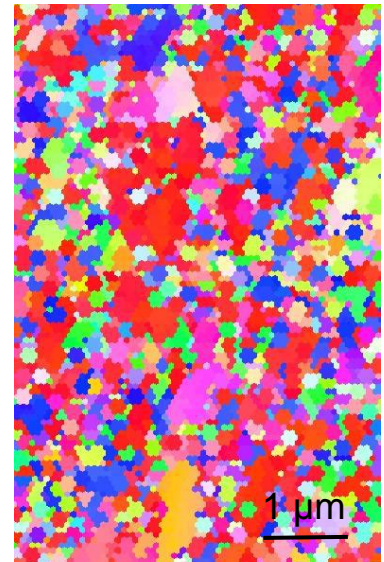


ECAP Ti-6Al-4V ELI

Standard	Description	Name	composition [wt%]								
			Al	V	C	Fe	H	N	O	Ti	
ISO 5832-3	Titanium-	3.7165	5.5	3.5							
ASTM F136	aluminium- vanadium alloy	Grade 5 ELI Grade 23	-	-	<0.08	<0.25	<0.012	<0.05	<0.13	bal.	

Ti-6Al-4V ELI is a particularly clean titanium alloy (extra low interstitial content) for application in health care (e.g., implants for trauma and orthopedy, surgical tools), space and aerospace industry. The ECAP processed nanostructured material meets all standards concerning purity and composition with enhanced mechanical properties. Thus, it enables high-performance products as well as miniaturization.

- /// density 4.4 g/cm³
- /// **excellent specific strength**
- /// good ductility
- /// excellent homogeneity
- /// high corrosion resistance
- /// high biocompatibility



Standard	Condition	Name	Mechanical properties (minimum values)		
			Rm [MPa]	Rp _{0.2} [MPa]	A [%]
ISO 5832-3 ASTM F136	annealed	Ti64 ELI	860	780 795	10
RHP	ECAP	Ti64 ELI	1160	1120	10

RHP-Technology GmbH

Forschungs- und Technologiezentrum
A-2444 Seibersdorf, Austria
+43 (2255) 20 600
info@rhp.at
www.rhp-technology.com

