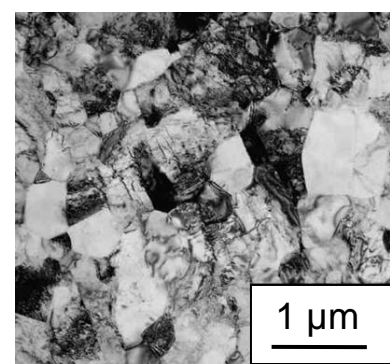


ECAP Titanium

Standard	Description	Name	composition [wt%]					
			C	Fe	H	N	O	Ti
ISO 5832-2 ASTM F67	Unalloyed titanium	3.7065 Grade 4	< 0.08	< 0.5	< 0.015	< 0.05	< 0.4	bal.

Titanium Grade 4 is an unalloyed titanium for application in chemical industry and health care (e.g., dental implants, surgical tools, implants for trauma and orthopedy). The ECAP processed nanostructured material meets all standards concerning purity and composition while possessing enhanced mechanical properties. Thus, it enables high-performance products as well as miniaturization.

- /// density 4.5 g/cm³
- /// **excellent specific strength**
- /// good ductility
- /// excellent homogeneity
- /// excellent corrosion resistance
- /// excellent biocompatibility



Standard	Condition	Name	Mechanical properties (minimum values)		
			Rm [MPa]	Rp _{0.2} [MPa]	A [%]
ISO 5832-2 ASTM F67	annealed	Grade 4A Grade 4	550	483	15
ISO 5832-2	cold-worked	Grade 4B	680	520	10
RHP	ECAP	Grade 4	860	800	15

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

