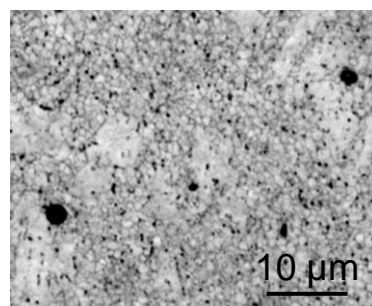
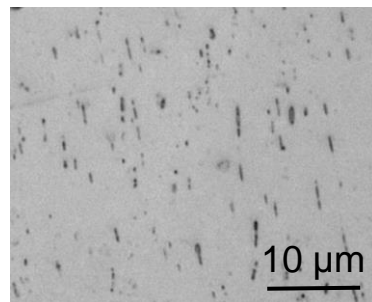


## ECAP Mg-Zn-Ca-Yb

Description	composition [wt%]					
	Zn	Ca	Yb	Mn	Fe	Mg
Lean absorbable Mg-Zn-Ca-Yb alloy	0.45	0.55	0.05	<0.005	<0.005	bal.
	-	-	-	<i>patented composition</i>		
	0.55	0.65	0.07			

The lean Mg-Zn-Ca-Yb alloy with patented composition for lower risk of hot cracking consists of elements that are naturally present in the human body and is ideal for temporary, absorbable medical implants. ECAP Mg-Zn-Ca-Yb produced with a special double ECAP tool offers a wide range of mechanical properties. The degradation behavior is slow and uniform in all cases.

- /// excellent biocompatibility
- /// uniform degradation in body fluids
- /// tuneable mechanical properties
- /// **excellent strength & ductility**
- /// excellent homogeneity



Condition	Mechanical properties (minimum values)			
	Rm [MPa]	Rp <sub>0.2</sub> [MPa]	A [%]	HV [HV2]
extruded	230	190	10	53
<b>D-ECAP – high strength</b>	<b>330</b>	<b>320</b>	<b>5</b>	<b>74</b>
<b>D-ECAP – balanced strength &amp; ductility</b>	<b>280</b>	<b>270</b>	<b>15</b>	<b>66</b>

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