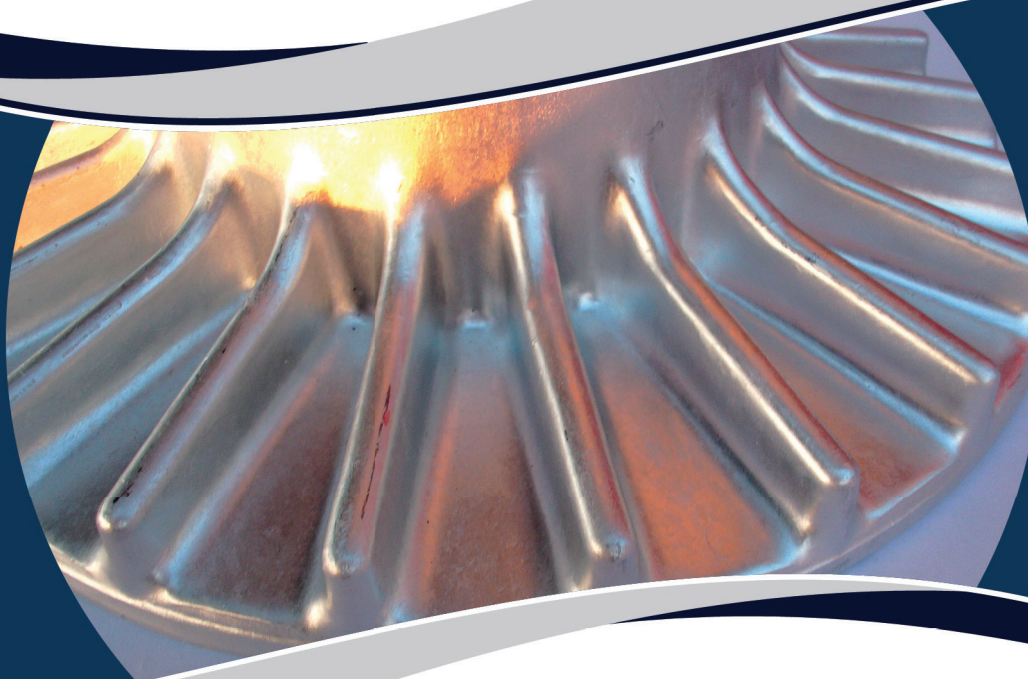


AI

Aluminium alloys

Material information



Die forgings
Open die/hand forgings



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Al

Aluminium alloys

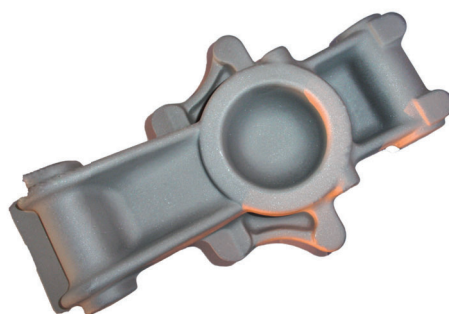
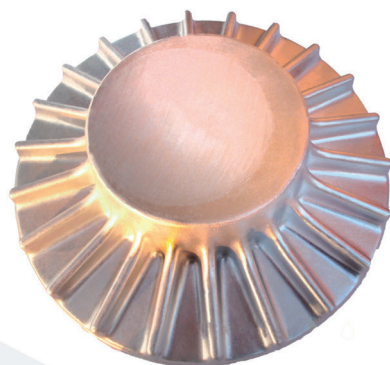
Material information

Basing on 50-year experience we offer the highest quality open die/hand and die forgings designed for aircraft and many other branches of industry. We mainly specialize in forging processes of lightweight non-ferrous metals. Moreover, we also design and produce essential forging tools such as: dies, trimmers, housings, electrodes and various devices for processing. Our forgings are used for critical parts and components and many types of aircraft engines. Preliminary or final machining processing and galvanic coverings are available on request.

Forged products are manufactured from the aluminium alloys listed in all standard delivery conditions. Further alloy can be quoted on request.

Material number EN AW	Material code type EN AW	Heat treatment condition	Tensile Strength R _m [MPa] min.	Yield Strength R _{p0.2} [MPa] min.	Elongation A5 [%] min.	Hardness HB 5/250 min.	Electrical conductivity [MS/m]
EN AW-2014	EN AW-Al Cu4SiMg	T6	440	380	10	120	20,0-23,2
EN AW-2017A	EN AW-Al Cu4MgSi	T4	380	230	10	95	17,8-20,3
EN AW-2024	EN AW-Al Cu4Mg1	T4	420	280	10	105	16,5-19,0
EN AW-2618A	EN AW-Al Cu2Mg1,5Ni	T6	400	260	5	105	20,0 – 23,2
EN AW-3103	EN AW-Al Mn1	H112	max. 170	-	20	max. 40	-
EN AW-4032	EN AW-Al Si12,5MgCuNi	T6	320	280	3	110	18,0-22,0
EN AW-5251	EN AW-Al Mg2,5	H112	max. 230	-	15	max. 50	-
EN AW-6061	EN AW-Al Mg1SiCu	T6	280	230	8	90	25,0-30,0
EN AW-6082	EN AW-Al Si1MgMn	T6	310	260	6	90	25,0-30,0
EN AW-6182	EN AW-Al Si1MgZr Alforge 82	T6	380	340	10	100	25,0-30,0
EN AW-7022	EN AW-Al Zn5Mg3Cu	T6	480	410	6	130	17,7-20,3
EN AW-7075	EN AW-Al Zn5,5MgCu	T6	510	430	7	135	17,7-20,3
EN AW-7075	EN AW-Al Zn5,5MgCu	T73	445	375	6	110	22,5-24,0

- technology – hot forging
- alloys EN AW-2xxx, EN AW-3xxx, EN AW-4xxx, EN AW-5xxx, EN AW-6xxx and EN-AW-7xxx series
- die forgings weight from 0.05 to 25.00 kg
- open die/hand forging up to 50.00 kg
- largest projected area up to 750 cm²
- delivery condition: precipitation hardened T4/T6/T73 and forged H112



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