

# Alloy properties

Die cast aluminium and die cast zinc: Mechanical and technical properties

Alloy	Alloy name (DIN 1706)		Tensile strength R <sub>m</sub>	Strength	Special features
	Numeric	Chemical	N/mm <sup>2</sup>		
Al 226	EN AC 45400	EN AC - AlSi9Cu3	240 - 310	Good	Very good universal alloy
Al 230	EN AC 44300	EN AC - AlSi12	220 - 280	Good	High chemical resistance
Al 231	EN AC 47100	EN AC - AlSi12Cu1	220 - 300	Good	High hot cracking resistance, good casting properties
Al 239	EN AC 43400	EN AC - AlSi10Mg	220 - 300	Good; heat-treated: very good	Very good universal alloy
Silafont 09	EN AB 44400	EN AB - AlSi9	240 - 280	Good	Flangeable
Silafont 36	EN AC 43500	EN AC - AlSi10MnMg	250 - 290	Good	Heat-treatable
Castasil 37	-	EN AC - AlSi9MnMoZr	260 - 300	Good	High elongation without heat treatment
Z 410	ZP 5	GD - ZnAl4Cu1	280 - 350	Good	High dimensional stability, thin wall thicknesses
Z430	ZP2	GD - ZnAl4Cu3	330 - 390	Good to very good	High strength