Aluminium Alloys

Alloy group	Alloy designation numerical	Alloy designation chemical symbols	Temper designation	MKB Alloy designation	Tensile strength R_m N/mm^2 min.	Yield strength $R_{p\ 0.2}$ N/mm^2 min.	Elongation at break A_5 % min.	Brinell hardness HBW min.
AlSi	EN AC-44200	EN AC-Al Si12(a)	F	**Al 160**	170	80	6	55
AlSi10Mg	EN AC-43300	EN AC-Al Si9Mg	T6	**Al 260**	290	210	4	90
			T64	**Al 260**	250	180	6	80
AlZnSiMg	EN AC-71100	EN AC-Al Zn10Si8Mg	T1	**Al 360**	260	210	1	100
AlSi7Mg	EN AC-42100	EN AC-Al Si7Mg0,3	T6	**Al 460**	290	210	4	90
			T64	**Al 460**	250	180	8	80
AlSi7Mg	*	*	T6	**Al 460 DV**	290	210	4	90
AlMg	EN AC-51100	EN AC-Al Mg3	F	**Al 560**	150	70	5	50
AlSi5Mg	*	*	F	**Al 660**	160	120	2	60
AlSi7Mg	EN AC-42200	EN AC-Al Si7Mg0,6	T6	**Al 760**	320	240	3	100
			T64	**Al 760**	290	210	6	90
AlSi7Mg	*	*	T6	**Al 760 DV**	325	250	14	100
AlSi10Mg	EN AC-43100	EN AC-Al Si10Mg(b)	F	**Al 860**	180	90	2.5	55
			T6	**Al 860**	260	220	1	90
			T64	**Al 860**	240	200	2	80
AlSi0,5Mg **	*	*	F	**Al 960**	100	80	18	40
			T7	**Al 960**	200	170	3	70

Temper designation:

F = As-cast condition for separately cast test bars T1 = Controlled cooling after casting and naturally aged

T6 = Solution heat-treated and fully artificially aged T64 = Solution heat-treated and partially artificially aged (underaged)

T7 = Solution heat-treated and overaged (artificially aged), stabilized condition

* = Not standardized as a permanent mould casting alloy ** = Alloy with high electrical conductivity