

# Al-Alloys

## Conditions



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numerical chemical symbols	conditions based on DIN EN 1302-1	diameter d in mm	R <sub>m</sub> MPa		R <sub>p0,2</sub> MPa typ.	A <sub>100 mm</sub> % typ.
			min.	max		
<b>series 1000</b>						
<b>EN AW-1050A, 1350</b> EN AW-Al99,5	0	≤ 20	---	95	---	35
	H14	≤ 18	100	---	95	5
	H16	≤ 15	120	---	115	3
	H18	≤ 10	140	---	135	3
<b>EN AW-1070A, 1370</b> EN AW-Al99,7	0	≤ 20	---	85	---	35
	H14	≤ 18	95	---	90	5
	H18	≤ 10	125	---	120	3
<b>EN AW-1080A</b> EN AW-Al99,8(A)	0	≤ 20	---	80	---	35
	H14	≤ 18	90	---	85	5
	H18	≤ 10	120	---	115	3
<b>EN AW-1098</b> EN AW-Al99,98	0	≤ 20	---	70	---	25
	H14	≤ 18	85	---	80	3
	H18	≤ 10	115	---	110	2
<b>EN AW-131050</b> EN AW-AlFeMg	F	---	120	160	---	25
	<b>series 2000</b>					
<b>EN AW-2011</b> EN AW-AlCu6BiPb	T3	≤ 18	310	---	295	6
	T8	≤ 18	370	---	310	4
<b>EN AW-2017A</b> EN AW-AlCu4MgSi(A)	H13	≤ 18	210	300	190	5
	T4	≤ 18	380	---	255	18
<b>EN AW-2024</b> EN AW-AlCu4Mg1	H13	≤ 18	230	300	200	5
	T4	≤ 18	420	---	315	18
<b>EN AW-2117</b> EN AW-AlCu2,5Mg	H13	≤ 18	170	240	110	5
	T4	≤ 18	260	---	160	20
<b>series 3000</b>						
<b>EN AW-3003</b> EN AW-AlMn1Cu	0	≤ 20	---	130	60	35
	H14	≤ 18	135	180	120	5
	H18	≤ 10	180	---	175	3
<b>EN AW-3103</b> EN AW-AlMn1	0	≤ 20	---	130	60	35
	H14	≤ 18	135	180	120	5
	H18	≤ 10	170	---	165	3
<b>series 5000</b>						
<b>EN AW-5019</b> EN AW-AlMg5	0	≤ 20	---	330	150	17
	H12	≤ 18	295	355	255	6
	H14	≤ 18	325	385	315	3
	H18	≤ 18	370	---	360	2
	H32	≤ 18	280	340	205	11
	H34	≤ 15	310	370	265	8
<b>EN AW-5051A</b> EN AW-AlMg2(B)	H38	≤ 10	360	---	320	4
	0	≤ 20	---	195	85	15
	H12	≤ 18	170	220	155	6
	H14	≤ 18	195	245	200	4
	H18	≤ 10	245	---	200	3

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numerical chemical symbols	conditions based on DIN EN 1302-1	dia- meter d in mm	R <sub>m</sub> MPa		R <sub>p0,2</sub> MPa typ.	A <sub>100 mm</sub> % typ.	
			min.	max			
<b>series 5000</b>							
<b>EN AW-5052</b> EN AW-AlMg <sub>2,5</sub>	O	≤ 20	---	225	100	15	
	H14	≤ 18	225	275	225	4	
	H18	≤ 10	275	---	275	3	
	H32	≤ 18	190	240	145	11	
	H34	≤ 15	215	265	195	8	
	H38	≤ 10	260	---	245	5	
<b>EN AW-5154A</b> EN AW-AlMg <sub>3,5</sub> (A)	O	≤ 20	---	275	125	16	
	H14	≤ 18	280	330	270	3	
	H18	≤ 10	330	---	320	2	
	H32	≤ 18	235	285	170	11	
	H34	≤ 15	265	315	230	8	
	H38	≤ 10	290	340	250	6	
<b>EN AW-5251</b> EN AW-AlMg <sub>2</sub>	O	≤ 20	---	215	95	15	
	H14	≤ 18	215	265	220	4	
	H18	≤ 10	265	---	270	3	
<b>EN AW-5754</b> EN AW-AlMg <sub>3</sub>	O	≤ 20	---	250	110	16	
	H12	≤ 18	230	280	200	6	
	H14	≤ 18	255	305	250	3	
	H18	≤ 10	305	---	300	2	
	H32	≤ 18	220	270	160	11	
	H34	≤ 15	245	295	210	8	
<b>series 6000</b>	<b>EN AW-6056</b> EN AW-AlSi1MgCuMn	H12/H13	≤ 18	160	240	140	4
		T6	≤ 20	400	---	360	10
	<b>EN AW-6060</b> EN AW-AlMgSi	T39	≥ 6	220	---	---	---
		T4	≤ 20	140	210	90	13
		T6	≤ 20	210	---	160	10
		T89	< 6	260	---	---	---
<b>EN AW-6063</b> EN AW-AlMg <sub>0,7</sub> Si	T39	≥ 6	230	---	---	---	
	T4	≤ 20	150	---	100	13	
	T6	≤ 20	220	---	190	10	
	T89	< 6	270	---	---	---	
<b>EN AW-6082</b> EN AW-AlSi1MgMn	H13	≤ 18	165	225	130	4	
	T39	≥ 6	310	---	---	---	
	T4	≤ 20	205	285	135	13	
	T6	≤ 20	300	---	270	10	
<b>EN AW-6101</b> EN AW-AlMgSi	T89	< 6	340	---	---	---	
	T6	≤ 15	215	---	160	10	
<b>series 7000</b>							
<b>EN AW-7075</b> EN AW-AlZn <sub>5,5</sub> MgCu	O	≤ 20	---	275	110	13	
	H13	≤ 18	230	310	230	2,5	
	T6	≤ 20	510	---	485	10	