

## EXTRUDED BARS

State	Dimension [mm]		R <sub>m</sub> [MPa]		R <sub>p0,2</sub> [MPa]		A	A <sub>50mm</sub>	HBW
	D <sup>a</sup>	S <sup>b</sup>	min	max	min	max	% min	% min	
<b>EN AW-6060 [Al MgSi] - EXTRUDED BARS</b>									
T4 <sup>c</sup>	≤150	≤150	<b>120</b>	-	<b>60</b>	-	<b>16</b>	<b>14</b>	<b>50</b>
T5	≤150	≤150	<b>160</b>	-	<b>120</b>	-	<b>8</b>	<b>6</b>	<b>60</b>
T64 <sup>cd</sup>	≤50	≤50	<b>180</b>	-	<b>120</b>	-	<b>12</b>	<b>10</b>	<b>60</b>
T6 <sup>c</sup>	≤150	≤150	<b>190</b>	-	<b>150</b>	-	<b>8</b>	<b>6</b>	<b>70</b>
T66	≤150	≤150	<b>215</b>	-	<b>160</b>	-	<b>8</b>	<b>6</b>	<b>75</b>
<b>EN AW-6063 [Al Mg0,7Si] - EXTRUDED BARS</b>									
T4 <sup>c</sup>	≤150	≤150	<b>130</b>	-	<b>65</b>	-	<b>14</b>	<b>12</b>	<b>50</b>
T4 <sup>c</sup>	150<D≤200	150<S≤200	<b>120</b>	-	<b>65</b>	-	<b>12</b>	-	<b>50</b>
T5	≤200	≤200	<b>175</b>	-	<b>130</b>	-	<b>8</b>	<b>6</b>	<b>65</b>
T5	≤150	≤150	<b>215</b>	-	<b>170</b>	-	<b>10</b>	<b>8</b>	<b>75</b>
T6 <sup>c</sup>	150<D≤200	150<S≤200	<b>195</b>	-	<b>160</b>	-	<b>10</b>	-	<b>75</b>
T66 <sup>c</sup>	≤200	≤200	<b>245</b>	-	<b>200</b>	-	<b>10</b>	<b>8</b>	<b>80</b>
<b>EN AW-6005A [Al SiMg(A)] - EXTRUDED BARS</b>									
T6 <sup>c</sup>	≤25	≤25	<b>270</b>	-	<b>225</b>	-	<b>10</b>	<b>8</b>	<b>90</b>
T6 <sup>c</sup>	25<D≤50	25<S≤50	<b>270</b>	-	<b>225</b>	-	<b>8</b>	-	<b>90</b>
T6 <sup>c</sup>	50<D≤100	50<S≤100	<b>260</b>	-	<b>215</b>	-	<b>8</b>	-	<b>85</b>
<b>EN AW-6082 [Al. Si1MgMn] - EXTRUDED BARS</b>									
T4 <sup>c</sup>	≤200	≤200	<b>205</b>	-	<b>110</b>	-	<b>14</b>	<b>12</b>	<b>70</b>
T6 <sup>c</sup>	≤20	≤20	<b>295</b>	-	<b>250</b>	-	<b>8</b>	<b>6</b>	<b>95</b>
T6 <sup>c</sup>	20<D≤150	20<S≤150	<b>310</b>	-	<b>260</b>	-	<b>8</b>	-	<b>95</b>
T6 <sup>c</sup>	150<D≤200	150<S≤200	<b>280</b>	-	<b>240</b>	-	<b>6</b>	-	<b>95</b>
T6 <sup>c</sup>	200<D≤250	200<S≤250	<b>270</b>	-	<b>200</b>	-	<b>6</b>	-	<b>95</b>

a Diameter for round bar

b Width cross section for square and hexagonal bar, thickness for rectangular bar

c Mechanical properties may be gained by cooling on the press exit

d Material for bending

Temper symbols (according to EN 515)	
<b>F</b>	extruded and air cooled (without mechanical properties specified)
<b>H112</b>	softly strengthen by shaping in higher temperature (specified mechanical properties limits)
<b>T4</b>	heat treated and naturally aged
<b>T5</b>	cooled from extrusion temperature and atificially aged
<b>T64</b>	heat treated and artificially aged
<b>T6</b>	heat treated and artificially aged
<b>T66</b>	heat treated and artificially aged level of mechanical properties higher than in temper T6
Mechanical properties	
<b>Rm</b>	Tensile strength
<b>Rp<sub>0,2</sub></b>	Yield strength
<b>A%</b>	Elongation measured on a gauge length of $5,65 \sqrt{S_0}$ ( $S_0$ - cross section of the sample) and expressed in %
<b>A50</b>	Elongation measured on a gauge length of 50mm and expressed in %