

# General construction alloys

Alloy data according to EN-755-2

\* Alloy data according to Sapa standard

Corresponding designations	Sapa 6060		Sapa 6060F22*		Sapa 6063		
	European standards: numerical designation chemical symbols	EN-AW-6060 AlMgSi		EN-AW-6060 AlMgSi		EN-AW-6063 AlMg <sub>0,7</sub> Si	
USA: Aluminium Association	AA6060		AA6060		AA6063		
Swedish standards:	SS-EN-AW-6060		SS-EN-AW-6060		SS-EN-AW-6063		
<b>Technical data</b>							
<b>Condition</b>	<b>T4</b>	<b>T6</b>	<b>T4</b>	<b>T6</b>	<b>T4</b>	<b>T6</b>	<b>T66 6063F25</b>
t=wall thickness, mm							
<b>Tensile strength</b>							
Yield strength R <sub>p0,2</sub> Mpa, min	≤ 25 60	≤ 3 150 3 < t ≤ 25 140	≤ 25 65	≤ 10 170 10 < t ≤ 25 160	≤ 25 65	≤ 10 170 10 < t ≤ 25 160	≤ 10 200 10 < t ≤ 25 180
<b>Ultimate tensile strength R<sub>m</sub></b> Mpa, min	≤ 25 120	≤ 3 190 3 < t ≤ 25 170	≤ 25 130	≤ 10 215 10 < t ≤ 25 195	≤ 25 130	≤ 10 215 10 < t ≤ 25 195	≤ 10 245 10 < t ≤ 25 225
<b>Elongation A, % min</b>	≤ 25 16	≤ 25 8	≤ 25 14	≤ 25 8	≤ 25 14	≤ 25 8	≤ 25 8
<b>Hardness</b>							
Webster B, approx. Value for information only	5	10	5	12	5	12	13
Enligt Vickers, Value for information only	40	60	45	70	45	70	80
<b>Thermal conductivity</b> At 20°C, W/m,°C	190	190	190	190	190	190	190
<b>Density</b> Kg/dm <sup>3</sup>	2,7	2,7	2,7	2,7	2,7	2,7	2,7

## All alloys:

Coefficient of thermal expansion:

23\*10<sup>-6</sup> / °C

Modulus of elasticity:

70 000 Mpa

Modulus of rigidity:

27 000 Mpa

Poisson's ratio:

0,33