



MATERIAL DATA SHEET EN AW-6082 (ALMGSI1)

DESCRIPTION: EN AW-6082 is an all-purpose alloy for mechanical engineering. It features a good possible combination with pressed products of the same alloy, especially if the same shade of color is desired when anodically oxidized. This material exhibits a good resistance to corrosion.

CHEMICAL COMPOSITION ACCORDING TO EN 573-3											
%	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Miscellaneous	Al
	0,7-1,3	0,5	0,10	0,4 - 1,0	0,6 - 1,2	0,25	-	0,20	0,10	0,15	Remainder

MECHANICAL PROPERTIES			
Tensile Strength	Rm	N/mm ²	275 - 300
Yield Point	Rp 0,2	N/mm ²	240 - 255
Ultimate Strain	A5/A50	%	-/6-9
Brinell Hardness	HB		84 - 91

USE: The most utilized aluminum alloy regarding machining with automatic lathes. Boring-, turning-, and milling grade.