meusburger

MATERIAL NO.: 3.3547

DESIGNATION:

DIN:	AlMg4,5Mn
EN:	AW-5083
AFNOR:	A - G4,5MC
UNI:	7790
AISI:	-

INDICATORY ANALYSIS:

Si	0.40
Fe	0.40
Cu	0.10
Mn	0.40-1.00
Mg	4.00-4.90
Cr	0.05-0.25
Zn	0.25
Ti	0.15

COEFFICIENT OF THERMAL EXPANSION [10^{-6}/K]

100°C	200°C	300°C	400°C	500°C	600°C	700°C
24.2	25.0	26.0				

STRENGTH:

- 68 - 75 HB (cast hardened)
  (≈ 230 - 260 N/mm²)
- min. 78 HB
  (≈ min. 270 N/mm²)

THERMAL CONDUCTIVITY AT 100°C:

110-140 $\frac{W}{m\,K}$

CHARACTER:

» Not hardenable, homogenised, annealed ***aluminium alloy*** with particularly good machining and welding properties; excellent dimensional stability; ideally suited for anodising, hard chrome plating and chemical nickel plating; very high resistance to corrosion
density: 2.66 kg/dm³
coefficient of thermal expansion: 24.2 10^{-6}m/mK
max. temperature permanent/short term: 90/110°C

APPLICATION:

» Plates for mould bases, rotary tables, machined components for machine and jig construction, moulds for prototypes and foamed parts

TREATMENT BY:

» Polishing, EDM, etching:
suitable
» Milling, welding:
ideally suited

HEAT TREATMENT:

» **Note:**
Subsequent heat treatment may lead to a deterioration of the mechanical properties!

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