

AL GM55 H38 and other material comparison

材料名稱/ SPEC	主要成分 / Composition	材 質 / Material	密度 / Density	屈服強度 / Yield Strength (N/mm ²)	抗拉強度 / tensile strength (N/mm ²)	硬度 / hardness	熱傳導率 / Thermal conductivity (W/mK)	伸長百分比 / Elongation %	彈性係數/ elasticity KN/mm2 (Gpa)	導電率 Conductivity (%IACS)	磁性/ Magnetic	Thickness (mm)
GM55 H38	Si0.15%max Fe0.2%max Cu0.2%max Mn0.3%max Mg5.0~6.0% Cr0.15%max Zn0.25%max Ti0.1%max 其他 0.15%max Al其餘	5 series Aluminum alloy (Rolling material)	2.64	310	400	120	110	12	70	27	NON	0.15
												0.2
												0.25
												0.3
TM60 HSM (AL6063)	Si 0.2~0.6% Fe≤ 0.35% Cu ≤ 0.1% Mn ≤ 0.1% Mg 0.45% ~ 0.9% Cr≤ 0.1% Zn≤ 0.1% Ti ≤ 0.1%Al其餘	6 series Aluminum alloy (Heat treatment material)	2.69	280	300	93	204	8	68.3	55	NON	0.15
												0.2
												0.25
												0.3
AL6061 T6				260	310	107	145~165	14	69	43	NON	Min. 0. 8
AL5052 H32				195	230	68	133	10	70	35	NON	Min. 0. 2