

## SPINCASTING ALLOYS

Chemical composition (UNI 1774) % by weight	ITL1 KAYEM	ITL1 MOD KAYEM SPECIAL	ITL2 KAYEM 2
Al	3.9 - 4.3	3.9 - 4.3	3.9 - 4.3
Cu	2.7 - 3.5	1.8 - 2.5	2.7 - 3.5
Mg	0.09 - 0.14	0.40 - 0.70	1.8 - 2.2
Pb	≤ 0.003	≤ 0.003	≤ 0.003
Fe	≤ 0.030	≤ 0.030	≤ 0.030
Cd	≤ 0.003	≤ 0.003	≤ 0.003
Sn	≤ 0.001	≤ 0.001	≤ 0.001
Zn	resto	resto	resto

Physical properties	ITL1 KAYEM	ITL1 MOD KAYEM SPECIAL	ITL 2 KAYEM 2
Density (kg/dm <sup>3</sup> A 20° C)	6.7	6.6	6.6
Solidification range °C	378 - 390	360 - 365	353 - 358
max. casting temperature °C	450	450	425
casting temperature °C	420 - 430	380 - 420	390 - 400
Coefficient of thermal expansion cm/cm x 10 <sup>-6</sup> /°C	27.7	-	28
Thermal conductivity 20°C W/m/hr/°C	104	104	104
Solidification shrinkage %	1.085	1.080	1.085

MECHANICAL PROPERTIES	ITL1 KAYEM 1	ITL1 MOD KAYEM SPECIAL	ITL 2 KAYEM 2
Tensile strenght MPa	200 - 220	200 - 250	160 - 180
Elongation %	1.0 - 1.5	minimo	minimo
Hardness Brinnell	105 - 110	145 - 150	145 - 150

PACKAGE	NOMINAL WEIGHT	DIMENSION (mm)
INGOT	8	520 x 75 x 52
PACKING	1000	810 X 520 X 640 (on pallet)