

PHYSICAL FEATURES		ZAMAK 12	ZAMAK 13	ZAMAK 15
Density	Kg/dm ³	6,70	6,60	6,65
Melting range	°C	379÷389	380÷386	380÷386
Specific heat	J/Kg°C	427	410	440
Thermal conductivity at 20°	W/m°K	104,6	113	108,9
Resistance at 20°	x10 ⁻⁸ Ω m	6,75	6,40	6,55
Optimal range of casting under pressure	°C	400÷440	400÷440	400÷440
Electrical conduction at 20°	MS/m	14,6	15,7	15,3
Linear thermal expansion coefficients	cm/cm x 10 ⁻⁶ °C	27,7	27,4	27,4
Linear shrinkage	%	1,25	1,17	1,17
Modulus of Elasticity	Kg/mm ² (GPa)	10,000 (98)	10,000 (98)	10,000 (98)
Melting maximum temperature	°C	480	480	480
Mould casting temperature under pressure	°C	200	200	200

MECHANICAL FEATURES		ZAMAK 12	ZAMAK 13	ZAMAK 15
Breaking load	MPa	300÷330	250÷280	280÷310
Linear extension (51 mm)	%	8	10	7
Brinell hardness (500Kg)	HB	85÷100	70÷85	80÷90
Resilience (6,35x6,35 Charpy)	J	47	58	65

The ingots are stacked and tied in bundles of about 7/8 quintals.