

Data Sheet

Zamak 7

Alternative Designations

Key Features

ZnAl4Ni

Relatively high ductility • High fluidity

Description

Zamak 7 has higher fluidity than the rest of the Zamak family alloys. This makes it ideal for special hardware components that will need some formability during assembly operations. Thinner walls can be cast with this alloy. It has outstanding damping capacity and vibration attenuation compared to other aluminium die casting alloys. It is known for its high strength and resistance to wear and tear.

Mechanical Properties

Chemical Composition

Zn

Yield strength	221 MPa	Al	3.7 - 4.3%	N	-
Tensile strength	283 MPa	Ві	-	Nb	-
Elongation at break	13%	С	-	Ni	0.005 - 0.020%
Hardness	80	Cd	0.002%	Ο	-
Module of elasticity	85.5 GPa	Со	-	Р	-
		Cr	-	Pb	0.003%
Physical Properties		Cu	0.1%	S	-
Density	6.6 g/cm ³	Fe	0.035%	Si	_
Electrical conductivity 1.56	$5E+07 \text{ m/}\Omega \cdot \text{mm}^2$	Н	_	Sn	0.001%
Coefficient of thermal expansion	27.4 K-1 · 10-6	Mg	0.005 - 0.02%	Ti	-
Thermal conductivity	113 W/m · K	Mn	-	V	-

Мо

419 J/kg · K

Reference

Specific heat capacity

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit <u>Materialdatacenter.com</u> for further information on this material.

Rest is Zn