

ZnNi0.5%Bi (Technigalva[®] Plus)

Technical Datasheet

Uses

Pre-alloyed (lead free) Zinc-Nickel alloy is suitable for hot dip galvanizing of iron and steel products.

Chemical specification

Chemical specification	Guaranteed analysis	Tolerance
Ni	0.5%	± 0.05%
Bi	0.15%	± 0.03%
Pb	≤ 0.02%	
Cd	≤ 0.003%	
Fe	≤ 0.005%	
Sn	≤ 0.005%	
Cu	≤ 0.003%	
Al	≤ 0.001%	
Zn	balance	

Physical data

Physical property	Unit	Value
Density solid	kg/dm ³	7.14
liquid (@ 419°C)	kg/dm ³	6.62
Melting point	°C	419
Superficial tension (@ 450°C)	N/m	0.78
Melting enthalpy	KJ/kg	100
Thermal capacity solid	J/kg K	460
liquid	J/kg K	628

Available shapes/package

Shape/package	Nominal weight (in kg)	Dimensions (in mm)
Block Jumbo 1450 kg	1450 ± 100	1532 x 567 x 307

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Block (jumbo) 1450 kg

Nominal mass 1450 ± 100 kg
Dimensions 1532 x 567 x 307

