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DuraKapp™#3 Babbitt

Description

DuraKapp™#3 Babbitt is a general purpose, high speed, Lead-free, Tin-based Babbitt. Kapp Alloy's unique Precision Microcasting™ process, combined with high purity virgin raw materials, results in the world's strongest, most ductile Tin-based Babbitt. **DuraKapp™#3** meets or exceeds the specifications for ASTM #3 Babbitt —also known as Super Tough, Grade 3, or No. 3 Babbitt. We stand behind our products with a 100% satisfaction guarantee or your money back.

Applications

- Sleeve bearings in: compressors, electric motors, pumps, and engines
- Thin bearings in light to medium pressure applications
- Motors, converters, centrifugal pumps, and dynamos
- Regular duty compressors, gas, diesel, and marine engines
- Paired with <u>KappaTinning™ Compound</u> and <u>Kapp CopperBond™ Flux</u>

Properties

Specification ASTM B23: Grade 3	
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	No. 3
Composition Sn (Tin): 83.0-85.0%	
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	7.5-8.5%
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	0.35% (max.)
Technical Data	
	464-792°F (240-422°C)
	27
	600°F (315°C) into mold at 302°F (150°C) -
27 HE	3 at 68°F (20°C); 14.5 HB at 212°F (100°C)
	10,000 psi (69 MPa)
	Cast at 600°F (315°C) into mold at
	302°F (150°C): 10,000psi (69 MPa)
	6,600psi (45.5 MPa)
	17,610 psi (121.4 MPa)
	1%
n at Temperature:	68°F (20°C) = 6,600 psi / 45.5 MPa;
·	212°F (100°C) = 3,150 psi / 21.7 MPa
si (MPa):	68°F (20°C) = 5,350 psi / 36.9 MPa;
	212°F (100°C) = 1,300 psi / 9.0MPa
Tension; Cast at 7	$750^{\circ}F (400^{\circ}C) \text{ into mold at } 212^{\circ}F (100^{\circ}C) = 100^{\circ}C$
	52 GPa (7.6 x 10 ⁶ psi)
	Density: 7.46 g/cm ³ (0.270 lbs./in. ³)
Casting to	emperature; Chill castings: 600°F (315°C)
	n at Temperature: si (MPa): Tension; Cast at 7

^{*}Available in standard forms: 35 lb. (15.9 kg) ingots, 6 lb. (2.7 kg), notch bars, and nominal 1 lb. (0.5 kg) bars. Custom alloys and forms are our specialty. Call Kapp Alloy to discuss your specific project.