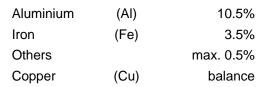
## **Technical Data Sheet**

# **AMPCO<sup>®</sup> 18.136**

## Centrifugals

### Nominal composition:





Mechanical and physical properties	Units	Nominal Values
Tensile strength R <sub>m</sub>	KSI	100
Yield strength Rp <sub>0.5</sub>	KSI	42
Elongation in 2"	%	20
Brinell hardness	BHN 30	170
Rockwell hardness	HRB	87
Reduction of area ψ	%	20
Compressive strength ultimate R <sub>mc</sub>	KSI	142
Proportional limit in compression R <sub>pc</sub>	KSI	32
Shear strength R <sub>cm</sub>	KSI	56
Modulus of elasticity E	KSI	16000
Charpy <sub>aK</sub>	LBS.FT	16
Izod <sub>aK</sub>	LBS.FT	22
Fatigue (100'000'000 cycles) σ <sub>N</sub>	KSI	31
Density ρ	LBS / IN <sup>3</sup>	0.269
Coefficient of expansion α	IN / IN / °F	9 · 10 <sup>-6</sup>
Thermal conductivity λ	CGS	0.141
Electrical resistivity γ (1mm² section)	Microhms/ Meter	133
Electrical conductivity	% I.A.C.S.	13
Specific heat c <sub>p</sub>	BTU / LB · °F	0.1

Assurances given with respect to properties or uses are subject to written approval from AMPCO METAL.

AMPCO® 18.136 is a variation of AMPCO® 18 specifically heat-treated to increase the impact resistance by 40 % (see Charpy values) and the elastic limit in compression by 10 % without affecting the tensile strength of the alloy.

#### **APPLICATIONS:**

This AMPCO® 18.136 has been tailor-made for steel mill applications as slippers and screw-down nuts and for similar applications where an extreme wear pressure is combined with important impact loading.