

Technical Data Sheet

AMPCO[®] 25

Sand Castings



Nominal composition:

(not published)

Mechanical and physical properties	Units	Nominal Values
Brinell hardness	BHN 30	364
Rockwell hardness	HRC	38
Compressive strength R_{mc}	KSI	220
Compressive strength, 0.1 % perm. set	KSI	100
Modulus of elasticity E	KSI	16000
Density ρ	LBS / IN ³	0.25
Coefficient of expansion α	IN / IN / °F	$9 \cdot 10^{-6}$
Thermal conductivity λ	CGS	0.078
Electrical resistivity γ (1 mm ² section)	Microhms/ Meter	250
Electrical conductivity	% I.A.C.S.	8
Specific heat c_p	BTU / LB. °F	0.1

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

AMPCO[®] 25 is a patented alloy which displays outstanding mechanical properties.

The extreme hardness, linked with an excellent compressive strength and very good friction properties, makes it ideal as a forming and drawing die material.

As the elongation of the material is nil, thin sections should be avoided and the material should be well backed up.

APPLICATIONS:

The phenomenal success of this alloy led to its use as forming rolls, bending and wiping blocks and it is considered the standard material in this field of applications.

Due to its inherent friction properties, this alloy has an excellent behaviour in any wear application where high compression loads are present.