

Technical Data Sheet

AMPCO[®] 26

Forgings



Nominal composition:

(not published)

Mechanical and physical properties	Units	Nominal Values
Brinell hardness	BHN 30	420
Rockwell hardness	HRC	44
Compressive strength R_{mc}	KSI	233
Compressive strength, 0.1 % perm. set	KSI	104
Shear strength R_{cm}	KSI	65
Density ρ	LBS / IN ³	0.247
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[®] 26 is a patented hard grade aluminium bronze. Its exceptional hardness makes it a unique material. However, this extreme hardness means fragility and machinability difficulties. This alloy has very limited uses and machinability, but it gives exceptional results.

APPLICATIONS:

Stainless steel drawing dies, forming rolls under great stresses and extreme pressures are the most typical applications for this alloy.