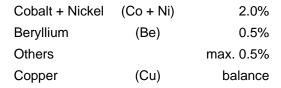
## **Technical Data Sheet**

# **AMPCOLOY<sup>®</sup> 95**

## **Forgings**

## Nominal composition:





### **Nearest international specifications:**

ISO	NFA 82100		
		T A 2/4	
EN	CW 103C	Typ A3/1	
D	DIN 17666	approx. W. Nr. 2.1285	
F	AFNOR	UK2Be	
GB	BS		
USA	CDA	approx. C17500-510	
	RWMA	Class 3	

Mechanical and physical properties	Units	Nominal Values
Tensile strength Rm	KSI	102
Yield strength Rp 0.5	KSI	72
Elongation in 2"	%	17
Brinell hardness	BHN 30	217
Rockwell hardness	HRB	96
Modulus of elasticity E	KSI	18850
Density ρ	LBS / IN <sup>3</sup>	0.315
Coefficient of expansion α	IN / IN / °F	9.44 · 10 <sup>-6</sup>
Thermal conductivity λ	CGS	0.497
Electrical resistivity γ (1mm² section)	Microhms/ Meter	33.3
Electrical conductivity	% I.A.C.S.	52
Specific heat Cp	BTU / LB · °F	0.1

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

### **APPLICATIONS:**

AMPCOLOY<sup>®</sup> 95 finds its own applications due to its slightly higher mechanical properties. AMPCOLOY<sup>®</sup> 95 is principally used for spot welding electrodes, electrodes for mesh welding, electrode holders, seam welding discs for stainless steel, Monel and nickel alloys, flash welding dies, plunger tips in aluminium high pressure die casting machines, moulds for low pressure die casting and parts for injection moulding of plastic wherever a high thermal conductivity is desirable.

#### **WARNING**

Since the alloy contains 0.5 % Beryllium, it is recommended that during any operation which is liable to create dust or fumes (for example dry grinding, polishing or welding) precautions should be taken to ensure there is no inhalation or exposure to eyes or skin. Conventional machining (for example milling and turning) is not generally considered hazardous.