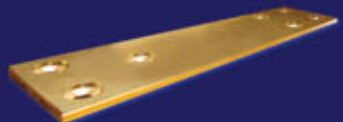


Ampco 18

nickel free

- Wear characteristics are 20 to 40 % better than Commercial Bronze
- Compression resistance is min. 10% higher
- Life expectancy will be increased
- No nickel contamination of mating surfaces
- Corrosion resistance 30 to 50 % higher than Commercial Bronze



- Wear plates and Inserts
- Bushings and bearings
- Brakes and gears
- Wiper dies
- Wedges and breaker blocks
- Screw down nuts and slippers

Technical details, see on back...



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Ampco 18 nickel free

The solution to your wear problems !

The exceptional wear and fatigue resistance of this alloy results from a controlled duplex alpha and beta phase. This alloy has high strength combined with good ductility and exceptional toughness.

The physical characteristics of this alloy can be varied by heat treatments (AMPCO 18-22, 18-23 and 18-136).



Technical Data:	Metric values	Imperial values
Tensile strength Rm	724 MPa	105 KSI
Yield strength Rp 0.5	365 Mpa	53 KSI
Elongation A5	14 %	14 %
Dry coeff. of friction	0.18	0.18
Brinell hardness	192 HB 30	192 BHN 30
Rockwell hardness	92 HRB	92 HRB

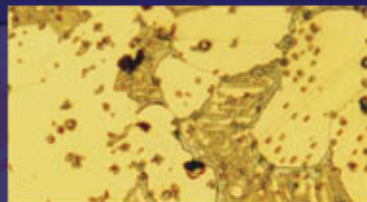
Nominal composition A18:

Copper (Cu)	balance
Aluminium (Al)	10.50%
Iron (Fe)	3.5%
Others	0.5% max.

Ampco 18's microstructure compared to commercial Bronze: Alpha phase (light yellow), beta phase (dark yellow) and intermetallic compound are uniformly distributed. The commercial bronze clearly shows large segregated phases and uncontrolled eutectoid.



AMPCO 18



Commercial Bronze

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For additional information: info@ampcometal.com