

# Automotive Alloys

Columbia Metals has been serving the automotive industry since 1961.

We hold one of Europe's largest stocks of non-ferrous alloys. Our material is traceable to its original source and is fully certified. And our efficient network of warehouses ensures it is delivered to you anywhere in the world, when you need it.

**Our material has supplied Formula 1, Rally teams, Classic cars, and Racing motorcycles.**

**We can supply material which is ideal for high performance applications:**

- Wear resistance
- Low friction characteristics
- Electrical conductivity
- Thermal conductivity
- Strength
- Corrosion resistance
- Oxidation resistance

Our own Trademarked alloys – unique only to us – have proven themselves to be extremely successful in their field. As supported by the thousands of repeat customers over decades.

**COLSIBRO®** and **TROJAN®** are precipitation hardened, high performance, CuNiSi alloys. Their combination of superior strength, good thermal conductivity, bearing properties and wear resistance has made them the ideal choice for components in highly stressed engines, such as valve guides and bearing shells.

	Tensile Strength N/mm <sup>2</sup>	0.2% Proof Stress N/mm <sup>2</sup>	Elongation 4D (%)	Hardness HRB (approx)
COLSIBRO®	640	590	10	180
TROJAN®	800	750	8	200



Here is just a selection of recommended automotive related alloys that we can supply. For our full range see our Stock List insert or visit our website.

**Other grades/specs available on request.**

When purchasing from Columbia Metals you can be assured you're in safe hands. We have ISO 9001:2008 certification audited yearly by the British Standards Institute (BSI).

Our Quality Management System ensures we only source material from quality mills, provide full batch traceability and offer a full technical advisory and back up service.

<b>Aluminium Bronze</b>	CA104 • CA105 • C63000 • COLSPEED 90® (free machining) - C64110
<b>Beryllium Copper</b>	C17200
<b>Brass</b>	CZ110 • ZAMALLOY® – UZ19A6
<b>Controlled Expansion Alloys</b>	Alloy 36 • Alloy 42 • Alloy 48 • Alloy K
<b>Copper</b>	C101 • C103 • C106 • C109
<b>Copper Nickel</b>	CN102 • C70600 • CN107 • C71500 • NIBRON®
<b>Copper Nickel Silicon</b>	COLSIBRO® – CuNi2Si • TROJAN® – CuNi3Si • DTD498
<b>High Copper Alloys</b>	CHROMZIRC 328® – BS CC102 • COLDUR A® – CS101, C65500
<b>Inconel Alloys</b>	718 to AMS5662 • 625 to AMS5666
<b>Nickel Alloys</b>	Monalloy 400 & 500 • Alloy 36 / K93603 – Low Expansion alloy • Alloy 42 / K94100 – Controlled Expansion alloy
<b>Nickel Silver</b>	NS101
<b>Phosphor Bronze</b>	PB102 • PB104 • COLPHOS 90® (free cutting) - C54400
<b>Stainless Steel</b>	A-286 • 13-8Mo • 15-5PH to AMS5659 • 17-4PH to AMS5643 17-7PH to AMS5622 • S145
<b>Titanium Alloys</b>	Ti-6AL-4V to AMS4928 CL AAS • 4911 • 4935 • 4904 • 4907 Ti-3AL-2.5V to AMS4975 • 4976 • 4919 • BS2TA11

Our technical advisory team can assist you on material selection and other specific questions. Contact us now for a competitive quote:

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