



CONTROLLED EXPANSION ALLOYS

Kovar	AKA	Pernifer 2918 NILO K Dilver P1 Dilaton 2918
	Specifications	ASTM F15 MIL 1-23011 CL1 AMS 1-23011 CL1 UNS K94610
	Forms	Coil Sheet Plate Bar Wire
Invar	AKA	Invar 36 Pernifer 36 NILO 36 Magnifier 2918 Dilaton 2918
	Specifications	ASTM F1684 MIL 1-23011 CL7 AMS 1-23011 CL7 UNS K93603
	Forms	Coil Sheet Plate Bar Wire
Super Invar 32-5	Specifications	ASTM F1684 UNS K93500
	Forms	Coil Sheet Plate Bar Wire
Alloy 52	AKA	Glass Sealing 52 Pernifer 50 NILO 50 Dilaton 52
	Specifications	ASTM F30 MIL 1-23011 CL2 AMS 1-23011 CL2 UNS N14052
	Forms	Coil Sheet Plate Bar Wire
Alloy 48	AKA	Glass Sealing 48 Pernifer 48 NILO 48 Dilaton 48
	Specifications	ASTM F30 MIL 1-23011 CL3 AMS 1-23011 CL3 UNS K94800
	Forms	Coil Sheet Plate Bar Wire
Alloy 42	AKA	Glass Sealing 42 Pernifer 42 NILO 42 Dilaton 42
	Specifications	ASTM F30 MIL 1-23011 CL5 AMS 1-23011 CL5 UNS K94100
	Forms	Coil Sheet Plate Bar Wire
Nickel 200	Specifications	ASTM B160 (bar) ASTM B162 (plate, strip, sheet) UNS N02200
	Forms	Coil Sheet Plate Bar
Nickel 201	Specifications	ASTM B160 (bar) ASTM B162 (plate, strip, sheet) AMS 5553 (sheet, strip) UNS N02201
	Forms	Coil Sheet Plate Bar
Nickel 205/233/270	Specifications	ASTM F3 Grade 2/1/4 UNS N02205/233/270
	Forms	Coil Sheet Plate Bar

SOFT MAGNETIC ALLOYS

ASTM A753 Type 4 – Alloy 79	AKA	MuMetal HyMu 80 Magnifer 7904
	Specifications	ASTM A753 Alloy 4 MIL N-14411C UNS N14080
	Forms	Coil Sheet Plate Bar Wire
ASTM A753 Type 3	Specifications	UNS N14076
	Forms	Coil Plate Bar
ASTM A753 Type 2 – Alloy 50	AKA	HyPerm 49 HyPerm 49 RG Supra 50 Permanorm
	Specifications	ASTM A753 Type 2 MIL N-14411C Comp 3 UNS K94840 AMS 7718 (bar)
	Forms	Coil Sheet Plate Bar Wire
ASTM A753 Type 1 – Radiometal 4550	Forms	Coil Sheet Plate Bar Wire
	Forms	Coil Sheet Plate Bar Wire
Hipercor 50	AKA	AFK 502 VacoFlux 50 Permendur 49 Rotelloy 3
	Specifications	ASTM A801 Alloy Type 1 MIL A47182
	Forms	Coil Plate Bar
ASTM A848 Soft Magnetic Iron	AKA	Remko Armco Maximag
	Forms	Coil Plate Bar Wire

REFRACTORY ALLOYS

Molybdenum	Specifications	ASTM B386 Type 361(plate, sheet) ASTM B387 Type 361 (bar) MS 7800 CAS 7439-98-7 UNS R03610
	Forms	Coil Sheet Plate Bar Wire
TZM Molybdenum	Specifications	ASTM B386 Type 364 (plate, sheet, coil) ASTM B387 Type 364 (bar, wire) AMS 817 UNS R03634
	Forms	Coil Sheet Plate Bar Wire
Tantalum	Specifications	ASTM B365 AMS 7849 UNS R05200
	Forms	Coil Sheet Plate Bar Wire
Niobium	Specifications	ASTM B392-18 (bar, wire) ASTM B393-18 (strip, sheet, plate) AMS 7850 UNS R04200 UNS R04210
	Forms	Coil Sheet Plate Bar Wire
Tungsten	Specifications	AMS 7898/7899 ASTM B760 ASTM F288 Type 1B CAS 7440-33-7 UNS R07005
	Forms	Coil Sheet Plate Bar Wire
Tungsten Heavy Alloys	AKA	Densimet Wolfmet Mallory
	Specifications	ASTM B777 AMS 7725 MIL-T-21014
	Forms	Sheet Bar

28 Nickel Ni 58.6934	27 Cobalt Co 58.933	26 Iron Fe 55.847
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More than just metal

We're one of Europe's leading suppliers of premium quality refractory metals and alloys, soft magnetic alloys, and controlled expansion alloys. We hold a large stock of UK-certified, materials, all with full chain custody. With a deep technical understanding, comprehensive workshop facilities, and top accreditations, we help our customers get more from their materials.

Knowledge and advice

Our team understands exactly how our products are made, how they will behave in different situations, and how they should perform. Their knowledge and expertise helps save time, effort and cost by ensuring that all materials are sourced, processed and tested to perform in the most effective way.

We partner with leading academic institutions and scientific organisations that add value to our service and help develop solutions to the challenges impacting our customers. We're keen to share these unique insights in order to deliver practical operational improvements.

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Our purpose-built facilities are centred around a fully equipped workshop designed to address almost any customer request:

- CNC Proturn RLX 1630 lathe for high precision rod and bar processing
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- Guillotines for sheet and coil
- Grinding machinery
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- Coil handling equipment to inspect product before dispatch
- Water jet and laser cutting
- Heat treatments

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- Straightness and roundness testing apparatus
- Magnetometers for measuring inductance, coercive and saturation
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- **AS9120** certified – a top aerospace industry award.
- **Green Mark level 1** accreditation – an environmental certification that supports greater sustainability.
- **JOSCAR** (the Joint Supply Chain Accreditation Register) accredited – an award that helps to streamline procurement processes.
- **Cyber Essentials** certified – a government-backed programme that provides security assurance of a supplier's digital infrastructure.



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