



BRODER METALS GROUP

Special Processing and Speciality Grades Dept.

At Broder Metals Group we understand the difficulties in finding materials to comply with increasingly demanding specifications.

Our Special Processing & Speciality Grades Department was set up many years ago to address this issue.

Our staff are trained to understand and interpret International Standards, End-User and Customer specifications and to ensure that material leaves our premises fully compliant to both the customer order and applicable specifications, both in terms of the material and reporting requirements.

We are fully conversant with many end-user specifications, created by the likes of AKER, Alco, AMEC, Cameron, FMC, GE, Halliburton, Oliver Valves, OneSubSea, SAE Aerospace, Schlumberger, Shell, Siemens, Vetco Grey, and Weir Power, etc.

If additional compliance testing is required, we will organise and control the testing process. If a customer witness of the testing is required, or the customer requires independent witnessing with the intent of EN ISO 10204 3.2 by such as Lloyds, TUV or Bureau Veritas, we will organise, coordinate and ensure compliance.

We stay abreast of new materials and product developments so that we can offer customers the right solution to their needs. Beyond this, we have also used our expertise to source speciality materials to meet the demanding requirements of customers, to convert materials to an alternative condition, and worked with European and US Mills to develop solutions that satisfy our customers' needs.

A sample of the range of materials our Speciality Grades Department are responsible for is given overleaf.

We can also use our extensive knowledge and network of quality subcontractors to manipulate the shape of material to provide rings, bored tubes, blocks etc.

Please contact us to discuss your requirements. We truly do embody Broder Metals Group Ltd's motto:

"global reach, personal touch".



+44 (0)114 232 9241



sales@broder-metals-group.com

www.broder-metals-group.com



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Speciality Grades

MP35N—UNS R30035

MP35N™ is a nickel-cobalt alloy which provides a unique combination of properties including ultra high strength, toughness, ductility, and outstanding corrosion resistance. We can supply the following high strength option and corrosion resistant options:

- AMS 5844 – solution treated and cold drawn bars: useful for where the ageing treatment will make the material too tough to machine economically. Material in this condition is supplied with an ageing capability test result for ageing to be carried out after machining of the component.
- AMS 5845 – solution heat treated, cold drawn and aged bars: fully aged material so the machinist does not have to carry out their own ageing operation.
- To meet the requirements of NACE MR.0175, with reduced strength but higher hardness values and maximum corrosion resistance.

AERMET 100 — UNS K92580

AERMET 100 is a Cobalt-Nickel alloy providing high hardness and strength combined with exceptional ductility and toughness. This alloy is used in aircraft and aerospace structural components requiring high strength, high fracture toughness and exceptional stress corrosion cracking resistance. AerMet 100 may be considered for use up to about 800°F (427°C). This alloy is not subject to the same restrictions as AF1410, thus may be considered a substitute.

This material is supplied to meet the following standards: AMS 6532 Rev F, MIL-STD-2154 Type I (Class AA) and Class A REV A) .

RBMD 5-2 RM1

A Copper-Nickel-Silicon alloy sourced specifically for motor racing high performance rod bearing and main bearing applications.

BRODERNAB22

A Copper –Aluminium-Nickel alloy designed to comply with ASTM B150 C63200 TQ-50 requirements for specific Valve component applications



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