High Temperature Alloys

For aerospace and other demanding applications

The Company carries a large stock of heat resisting alloys, mostly in wire and bar form. Almost all this stock is released to appropriate international aerospace standards. These alloys are listed below using the name or code by which they are most commonly known:

Nimonic® 75
Nimonic® 80A
Nimonic® 90
Nimonic® C.263
Inconel® 600
Inconel® 625
Inconel® 718
Inconel® X.750
Haynes® 25 (L.605)
Haynes® 282
Incoloy® A.286
Waspaloy

MA.956 (Plansee® 2000) – This last alloy is a powder metallurgy alloy and has exceptional resistance to high temperature collapse.

MA.956 is a new alloy that has been proved to have creep resistance, retention of springiness, and corrosion resistance in hot air at ultra-high temperatures (900ºC+). Its ability to retain spring characteristics for very long periods at extremely high temperatures is superior to that of the melted nickel alloys. Resilience to heat-collapse is particularly useful for piston ring type seals when used at these high temperatures. This material is one of the family of ODS (Oxide Dispersion Strengthened) alloys, whereby a yttrium-oxide particle effectively mechanically key very large metallic grains together. This technology has the potential to increase operating temperatures by at least 150ºC when compared to the best Nickel Alloys.