TENMAT
ADVANCED MATERIALS

FIREFLY  SINDANYO  NITRASIL  REFRAVER

ALUMINIUM PRODUCTION AND PROCESS INDUSTRIES
INNOVATION

TENMAT is a leading manufacturer of specialised, high performance engineering materials and components with over 100 years of experience.

SAFETY

TENMAT stands for innovation, safety products, commitment to our customers and the latest quality standards worldwide.

SERVICE

QUALITY

A World of Materials

The diversified product range includes high temperature resistant materials, engineering ceramics, composite wear parts and bearings, passive fire protection solutions and hard metals.

Commitment to Quality

TENMAT operates an ISO 9001:2008 Quality Management System for the design, development and manufacture of specialized high performance engineering materials and components.
HIGH TEMPERATURE MATERIALS

Tenmat High Temperature Materials are recognised as world leaders in their industries, providing undisputed performance in the most demanding of applications. From metal production to hot gas filtration, Tenmat manufactures extreme temperature resistant materials of the highest quality, which improve the performance and efficiency of industry leading companies.

Tenmat High Temperature Materials offer considerable benefits in terms of performance, reliability, design and safety. Tenmat has been providing solutions to industry problems around the world for decades.

ALUMINIUM INDUSTRY

Tenmat materials are trusted by primary aluminium smelters worldwide to provide the highest standard of performance and reliability. These materials are widely used by Norsk Hydro, Rio Tinto Alcan, Rusal, Alcoa, Alba, Pechiney and relied upon by many other aluminium smelter technology companies worldwide.

Tenmat is a leading global manufacturer of lightweight, non-combustible and strong products for the varied and challenging electrical and thermal insulation applications within the sector.

Tenmat offers a full portfolio of high-performance, asbestos-free products which work to improve efficiency, avoid downtime, reduce risk and drive business profitability.
**TENMAT** materials are used for a variety of applications in the potrooms of primary aluminium smelters.

**TENMAT FIREFLY** millboard, is a non-ceramic refractory millboard, which is specially designed for the diverse gasketing and insulation applications within the potrooms of primary aluminium smelters.

**FIREFLY FF700** is a popular choice of gasket in the syphon hose arm in typical molten metal transfer equipment. **FIREFLY FF700** also finds application as an insulation material in holding vessels as well as providing an ideal material for splash guards with its excellent non-wetting properties.

**SINDANYO** asbestos-free cement board products are industry leaders, providing excellent electrical and thermal insulation solutions in potrooms. **SINDANYO L21 & L23** products are high performance insulators and are used as Bus Bar Insulators, Reduction Super Structure Insulators and Frame Insulators worldwide.

**SINDANYO** products exhibit excellent machining qualities, allowing for production of complex 3D geometries. **TENMAT** world leading manufacturing capabilities allow customer specified SINDANYO components to be designed and developed to meet the demands of even the most extreme application.
**TENMAT** REFRAVER cement board possesses high strength while offering low water absorption and excellent electrical insulation, even in humid conditions.

REFRAVER machined components can find application as crust breaker insulators within electrolysis pots in aluminium smelters. These crust breaker insulators provide electrical insulation to the crust breaker, preventing the occurrence of electrical shorting occurring in the electrolysis pot.

**TENMAT** NITRASIL is a reaction bonded silicon nitride that is especially suited to thermal insulation and non-ferrous metal contact applications. NITRASIL is used in primary, secondary and tertiary processes as thermocouple protection sheaths, protecting a thermocouple from direct contact with the molten metal.
TENMAT materials serve several applications in the casthouse's of aluminium smelters, with superior performance, reliability and safety.

**TENMAT FIREFLY CS1150S** is a product made from exonerated alkaline earth silicates (AES), typically used in the casthouse as casting nozzles and hand ladles.

**FIREFLY CS1150S** is a lightweight material exhibiting low thermal conductivity, and unlike other refractory ceramic fibres it can be disposed of in non hazardous landfill.

**TENMAT FIREFLY RF1000S** has proved to be a durable and reliable material for in aluminium smelters. RF1000S is the material of choice for use tap out cones and thermal insulation of launder systems in smelters throughout the world.
TENMAT operates an ISO 9001:2008 Quality Management System for the design, development and manufacture of specialized high performance engineering materials and components.

TENMAT’s ongoing commitment to the development of new products and solutions in the field of composite and engineering materials has been recognized in 2012 and 2013 by receiving the highest official award in Great Britain, the prestigious Queen’s Award for Enterprise in the categories Innovation and International Trade.

TENMAT High Temperature Materials are manufactured to the highest industry standards at TENMAT’s own world leading manufacturing facility in Manchester, UK.

TENMAT High Temperature Materials are available in many standard sizes and custom shapes. Our outstanding Technical Services department is available to provide guidance on material selection, part design and technical solutions for individual enquiries.
TENMAT is committed to the highest standards in customer service and our international staff is looking forward to assist you.

CORPORATE HQ
TENMAT Ltd.
Ashburton Rd West
Trafford Park
Manchester M17 1TD
England
Tel.: +44(0)161 872 2181
Fax: +44(0)161 872 7596
Email: info@tenmat.com
Web: www.tenmat.com

NORTH AMERICA
TENMAT Inc.
23 Copper Drive
Newport, DE 19804
USA
Tel.: +1 302-633-6600
Fax: +1 302-633-6838
Email: info@tenmatus.com
Web: www.tenmatus.com

SCANDINAVIA
TENMAT
Stureplan 13
111 45 Stockholm
Sweden
Tel: +46 (0) 8 612 68 50
Fax: +44 (0) 161 872 7596
Email: info@tenmat.com
Web: www.tenmat.com

ITALY
TENMAT
Via Dante, 2/48
16121 Genova
Italy
Tel.: +39 (0) 10 5451343
Fax: +39 (0) 10 5760553
Email: info@tenmat.it
Web: www.tenmat.it

FRANCE
TENMAT
56 Avenue Foch
77370 Nangis
France
Tel.: +33 (0) 1 60 585656
Fax: +33 (0) 1 64 083617
Email: info@tenmat.fr
Web: www.tenmat.fr

GERMANY
TENMAT
Tel.: +49 (0) 7151 1338468
Fax: +44 (0) 161 872 7596
Email: info@tenmat.de
Web: www.tenmat.de

Visit us on the web at www.TENMAT.com