

Global Innovation for Your High Temp World

Fedmet provides quality engineered products and services for all your high temperature applications.

For over 25 years, Fedmet has provided outstanding results for our clients within the iron, steel and non-ferrous industries. Our company's reputation is built on delivering high quality products made with the world's best raw materials.

We give you a competitive advantage by offering you superior proven products that positively impact your bottom line, perform better and are safer. Our knowledgeable engineers ensure the proper application of our products to give you the maximum level of output and safety.

With over 25 warehouse facilities in the United States, Canada, Mexico and South America we assure your products are readily available when you need them in these regions.

Through the use of our vast global resources, Fedmet is committed to delivering an exceptional customer experience and innovative solutions to all of our clients in the high temp world.



We offer the Thermal Kinetic Energy Heat transfer technology. The TKE-HTT™ is a revolutionary system used in industrial heating to replace conventional gas burners.

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Ladle Refractories:

Fedmet has proven products for every ladle, slag and practice. We will design for you a well-balanced lining providing optimal performance at the lowest possible cost. Our Pinnacle series magnesia-carbon brick is made from 100% electrically fused magnesite, high purity graphite and metallic antioxidants as needed. Barrels and bottoms can be tailored to fit your operation using Pinnacle, Oracle alumina-magnesia-carbon, or Epic fired alumina, Paragon mag-enriched dolomite and/or Durachrome magnesia-chrome brick.

Furnace Refractories:

We offer our Pinnacle series magnesia-carbon brick for sidewalls. Pinnacle is made from 100% electrically fused magnesite, high purity graphite and metallic antioxidants as needed. Durachrome magnesia-chrome brick in direct-bonded, semi- rebonded or fully-rebonded for the Specialty Steel manufacturers. For bottoms we offer Jehearth and Fedhearth masses. For sub-hearths and stadiums we recommend Atlas burned magnesite brick with or without pitch impregnation. Taphole sleeves, blocks, precast deltas, runner shapes and roof brick round out the total package.

Foundry Refractories:

Induction furnace linings are available in spinel (brick or dry vibe), alumina (brick, dry vibe and pre-cast), and magnesite-based (brick, ram and pre-cast) qualities. Electric arc furnace brick are available in silica, alumina, mag-chrome, mag-carbon, burned magnesite and burned dolomite. Ladle linings are available in ram, castable and brick in every quality (silica, alumina, spinel, alumina-chrome, alumina-carbon, alumina-magnesia-carbon, mag-chrome, dolomite, and mag-carbon).



Graphite Electrodes:

Diamond Graphite is a world-leading supplier of high quality graphite electrodes. DG's premium electrodes are produced to meet modern steel industry consumption needs by providing a combination of reliability, performance, and cost effectiveness. DG is committed to quality throughout the manufacturing operations so we only use the best premium needle coke and other premium petroleum raw material.

Copper, Nickel and Lead Refractories:

Fedmet carries a full line of high-quality products for the primary and secondary production of non-ferrous metals. For copper, nickel and lead, we offer magnesite-chrome brick in many different formulations. From direct-bonded to fully re-bonded, and everything in between, Fedmet supplies brick made only from 100% virgin materials. Supplementing the brick line is a full catalog of specialties including mortars, castables, plastics and rams.

Mineral Processing Industry Cement and Lime:

Fedmet is positioned to supply all your refractory requirements in the mineral processing area. We have you covered in the rotary kiln, static tower, and cooler sections of your plant. For the cement and lime process we offer magnesite-alumina spinel, magnesite-iron spinel, dolomite and high alumina shapes. In the monolithic area we supply a full range of plastics, light-weight castables and gunnite materials.

Flow Control Refractories & Supplies:

Alumina-graphite: carbon-bonded, ISO-statically pressed single and multiple composition products used in both ferrous and non-ferrous applications. Typical uses are one-piece stopper rods, ladle shrouds, sub-entry nozzles and shrouds used for continuous casting of steel. All compositions are produced from the highest quality raw materials with strict process controls to ensure consistent high quality performance.

Fused silica: high purity fused silica grain begins the process for producing high-density, thermal shock-free fused silica products used in both ferrous and non-ferrous applications. The primary shape is ladle shrouds, but can be used for stoppers, sub-entry nozzles and shrouds along with other specified custom designs.

Slide Gates and Slide Gate Refractories:

Fedmet supplies slide gate refractory for a wide range of slide gate systems. Slide gate refractory is matched to your specific steel qualities. We are capable of complete turn-key installations of gate systems from engineering to training to fabrication as well as supply of consumables and parts.

Gas Purging Plugs:

Fedmet carries both directional and non-directional plugs. They can be custom-made to any size, taper and flow rate. Every plug is tested before shipment for flow rate. Fedmet supports its plug sales with flow meters, control panels and pullers as needed.

Copper Mold tubes:

Fedmet offers custom copper mold tubes that are designed based on your specific needs. Our specialists are trained to determine the best composition. Length and taper to maximize the performance of your caster and to optimize your quality. We also offer stainless steel water jackets mold housings for all machines.