Permatech is pleased to introduce Tough Tap™, a revolutionary new patent-pending custom-engineered Tap Block flow control system. Tough-Tap™ utilizes composite steel reinforced refractory system that rivals the performance of existing steel components.

If tap control component cost are putting a dent in your budget; if you are concerned about iron oxide inclusions from the deterioration of your existing tap control components: if the metal flow at your tap hole is overly turbulent; and if you require a more precise system to adjust your metal flow….then please consider the following benefits and features of Tough-Tap™.

**ADVANTAGE**
- Hydro-dynamically designed to reduce metal flow turbulence
- Non-wetting to molten aluminum
- Ultra-strong erosion-resistant reinforced refractory
- Custom engineered adjustment systems including fully automatic
- Long lasting
- Engineered to meet your needs and budget

**COMPLIMENTARY COMPONENTS**
- Custom Engineered Tap Blocks from a variety of material compositions that rival the life performance of other available materials.
- Multi-piece Tap Blocks for fast replacement turnaround
- Fast delivery for custom prototype shapes
- Ceramic tap control plugs and cones

**ENGINEERED FOR MAXIMUM PRODUCTIVITY**

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