

TRU TUNCARB HT

TS METAL COATING TECHNOLOGY FOR HI-TEMP WEAR

- Composition Cr₂O₃ Plus Al₂O₃ in solid Solution
- Macro hardness 72 Rc
- Cross-Sectional Hardness (DPH 300) 950-1050
- Service Temperature 2200°C
- Coating Density 6.7 grams/cc
- Bond Strength 7000 psi

NOTE: Specific chemistry applies to **TRU TUNCARB HT**, Chromia-Aluminum Oxide application only.

TRU TUNCARB HT metal coating protection containing Chromia-Aluminum Oxide is recommended for resistance to erosion, abrasion and corrosion at high temperatures. It has demonstrated resistance to molten ferrous alloy, molten coal slag, high sulfur environments and strong acids. Finishing will require the use of diamond grinding.

TRU STEEL METALS takes its understanding of equipment parameters and component wear to achieve a successful outcome and quality parts for your specific applications. This composition was developed for coal-fired magneto-hydrodynamic generation. The high temperature corrosion resistance is made possible by stabilization of the alumina via the chromia alpha form. Experience indicates that this material is unique in its corrosion resistance and in the retention of hardness at high temperatures. Typical applications include burner linings (coal), thermocouple sheath coating for ferrous alloy, coal slurry pump linings, high temperature valves, flue gas linings and flares.

TRU TUNCARB HT coatings have been utilized in a wide variety of applications with still many more uses to be discovered! Please contact your **TRU STEEL METALS** representative with any potential uses or inquiries you may have in relation to problem identification, selecting the appropriate coating type, field testing and implementation for your specific needs.