

Thermal Spray Technology

Extreme surface wear requires extreme solutions from EternAloy®.

Advantages of EternAloy®

- Greater wear-resistance and increased operational life
- Low porosity, elevated temperature durability
- HVOF, HVAF, and Laser Metal Deposition (LMD).

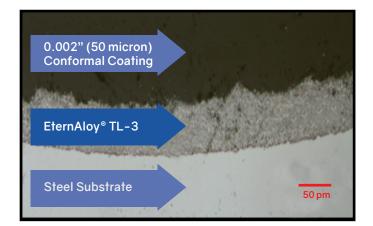
EternAloy[®] Delivers Proven Superior Performance

- Surface Coating Powders
- Customized Powders
- Cutting Tools

Application 1:

Industrial Machine Component Proven 2x to 5x Life Improvement with EternAloy[®] HVOF Thermal Spray Coating

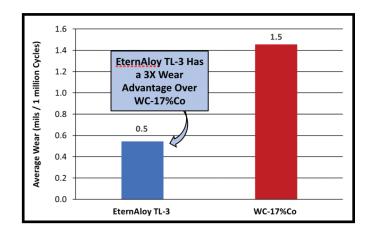
Industrial components with coating thicknesses as thin as 0.002" on a contoured surface outperform the best tool in a high-volume manufacturing operation.



Application 2:

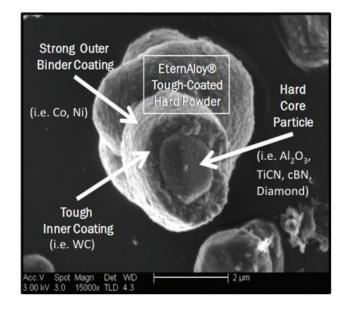
Aerospace Coatings Performance EternAloy[®] TL-3 versus Aeronautical Grade WC-17%Co

HVOF Thermal Spray: Block-On-Shoe Wear Test:

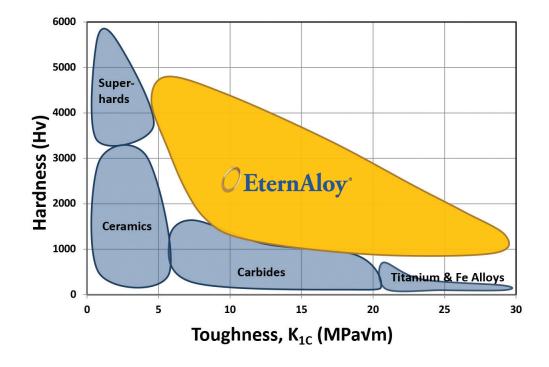


EternAloy[®] Tough-Coated Hard Powder (TCHP):

- EternAloy[®] is the world's only designer and producer of nanoengineered metallized powders, utilizing globally-patented (TCHP) technology.
- EternAloy[®] TCHP products consist of extremely hard core particles encapsulated in a very tough and uniform protective shell.
- EternAloy[®] TCHP surface coating grades include TL-3 (Ti(C,N) core) and NL-3-2 (Al₂O₃ core)
- EternAloy[®] Custom-designed TCHP development services are available for unique applications.



EternAloy[®] Hardness / Toughness Comparison:



p: 724-864-4787 • e: sales@EternAloy.us • w: EternAloy.us 509 Hahntown Wendel Road, North Huntingdon, PA. 15642