



Extreme Coatings™

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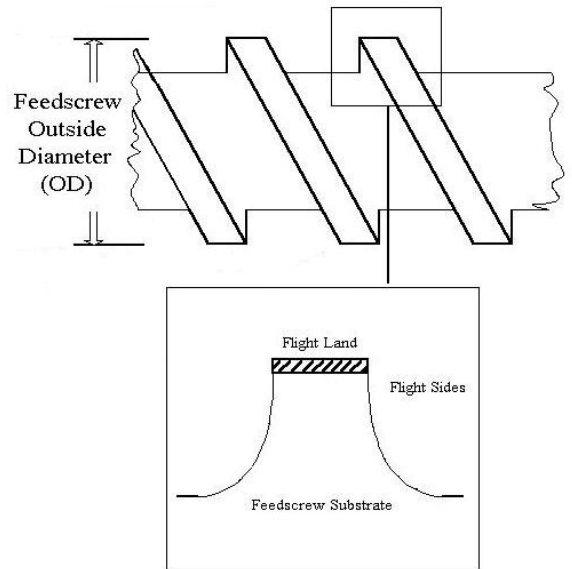
FliteGuard®

Outside Diameter Feed Screw Coatings

In response to market demand, Extreme Coatings developed the capability to coat just the screw flight land with long lasting tungsten carbide. **FliteGuard®** is an ideal option for applications where root erosion/wear is not an issue. Technological advances allow the root to be completely masked, coating just the wearing portion of the feed screw, the flight lands.

Productivity of an extrusion process is especially sensitive to OD wear. Extrusion feed screws provide material transport, melt energy, mixing and finally pressurize the melt for downstream flow through the die head. It has been shown that doubling the screw/barrel clearance can reduce output and melt rates by as much as 25%. As pumping efficiency drops, adjustments are made to maintain output rates. These adjustments increase melt temperatures and accelerate system wear.

Our standard coatings are three to five times longer lasting than common alloys used to protect the flight OD of extrusion feed screws. Just .005" (0,125 mm) of Extreme Coatings carbide is equivalent to .025" (0,55 mm) of Colmonoy 56 or .015" (0,25 mm) of C83. For large extrusion feed screws this is an option with a very short payback period. With a few inputs we can prepare an estimated ROI for a carbide investment.



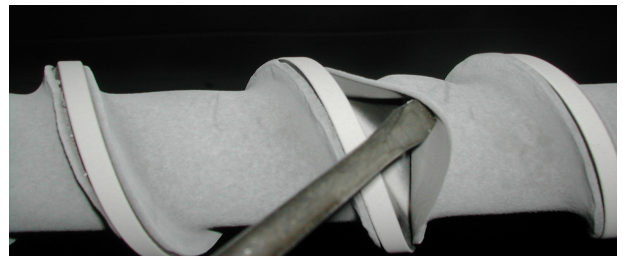
An example of productivity gains in a high fill extrusion process.

	Screw Life days	Total Output kg	Output per day
Colmonoy 83	65	150,000	2308
XC9000	210	675,000	3214

A 25% increase in productive output and a solid example of the value that minimizing OD wear can have on a close-tolerance system.

**Maximum coating thickness
 .005" (0,125 mm) per side**

Coating can be applied over hardfacing and chrome plating



Contact Extreme Coatings for more details.

HVOF Masking Compound