USES

For use on all UC Series pump models with sintered silicon carbide bushings and shafts. SiC Dri-Coat is applied to a sintered silicon carbide bushing and shaft to permit brief periods of dry running without damage to the pump.

INDICATIONS

SiC Dri-Coat is extremely useful when pumping corrosive chemicals containing abrasives. The SIC Dri-Coat provides a thin layer or amorphous carbon onto the alpha sintered silicon carbide shaft and bushings (standard on UC pumps). This diamond-like coating is very hard; in fact, it is much harder than the alpha sintered silicon carbide, and conforms easily to the silicon carbide shaft and bushing material. The SiC Dri-Coat is chemically inert and has a low coefficient of friction. It is this low coefficient of friction that allows the coated components to resist dry-run damage in abrasive applications for a limited time. It is heat resistant and will not shatter or crack when liquid is introduced while running dry.

APPLICATIONS

The SiC Dri-Coat option is ideal protection where the pump may see unintentional, brief periods of dry running. Some typical dry run situations are:

- tank or rail car unloading
- entrained gas
- fluids with low lubricity such as DI water
- operator error or system upset

PRECAUTIONS

Though SiC Dri-Coat provides more than 10 times the run dry ability of standard silicon carbide, allowing the pump to run dry for extended periods is not recommended and can damage the special coating. This would increase the potential for future damage if the pump is run dry again after the coating has been damaged. Even with the coating damaged, the parts continue to exhibit the same superior chemical and abrasion resistance of standard silicon carbide.

For ultimate run dry protection, combine the SiC Dri-Coat option with an FTI M20 power monitor.

Shaft with SiC Dri-Coat Application

Bushing with SiC Dri-Coat Application

M20 Power Monitor