



TRUTECH™ 3110 MATERIAL

Designed for Optimum Wiper Packing Effectiveness

Outperforms both metallic and non-metallic materials in oil removal and durability



CUSTOM-ENGINEERED

Wiper packing plays a critical role in maintaining compressor reliability by preventing crankcase oil from entering the pressure packing. To perform effectively, wipers must remove oil from the entire circumference of the piston rod. This requires wiper rings that are properly designed for their application and constructed of material that provides the optimum balance of strength, flexibility and durability.

Cook Compression developed new TruTech 3110 material primarily for the unique demands of oil wiper service. The innovative PTFE-based compound is engineered to provide a sharp wiping edge in wiper rings and to retain the wiping edge over extended use. TruTech 3110 is also formulated to impart flexibility to wiper rings, allowing the material to tightly conform to the rod surface and eliminate potential leak paths. As a result, wiper packing manufactured with TruTech 3110 has the ability to perform efficiently while reducing the costs and environmental risks associated with excessive oil consumption.

SUPERIOR RESULTS

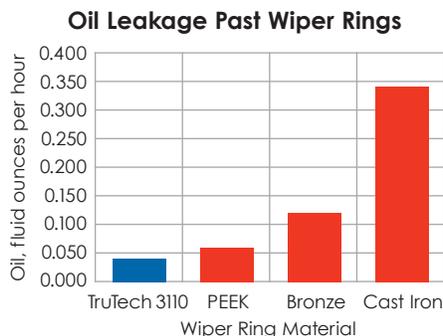
Tests conducted in controlled laboratory conditions confirm that

Introducing TruTech 3110: the material engineered for oil wiping efficiency



wiper rings made from TruTech 3110 are significantly more effective at stopping oil leakage compared to rings made from other materials. TruTech 3110 rings remove 11% more oil from the rod than PEEK, the next-best wiper ring material. TruTech 3110 performs 64% better than bronze and 86% better than cast iron.

The chart below shows relative leakage rates past wiper rings for each material.



ADVANTAGES

- Improves oil-wiping efficiency
- Enhances retention of the oil wiping edge
- Increases conformability of wiper rings
- Reduces oil consumption and costs
- Helps protect the environment and assure regulatory compliance
- Can be used in all lubricated applications where PTFE can be applied
- Cook Compression engineering support assures optimum material selection
- Can be applied to other sealing components

Cook Compression provides engineered wiper solutions by optimizing material selection and component design for your application.

MORE APPLICATIONS

TruTech 3110 delivers outstanding results in oil wiper packing and may be applied in any lubricated service where PTFE can be used. For some applications, TruTech 3110 may also be selected to enhance the performance of piston rings, rider rings, rod packing rings and bushings.

TRUTECH MATERIALS

is a family of innovative, engineered materials available exclusively from Cook Compression. Incorporating the latest advances in polymer science, TruTech materials offer superior performance in component durability and critical performance characteristics. Experienced Cook Compression specialists provide engineering support to assure optimum results in each application.

MATERIALS TECHNOLOGY

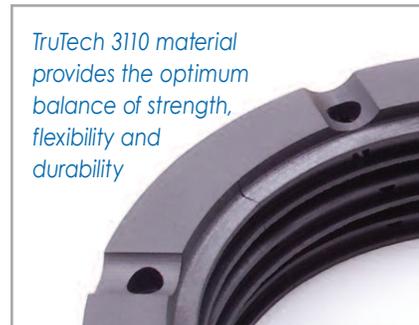
The Cook Compression Materials Technology program integrates materials research with our extensive

engineering resources and more than a century of practical experience. New materials receive intensive laboratory analysis and undergo comprehensive testing in Cook Compression in-house test compressors before release to the field.

Every Cook product incorporates both leading materials technology and the industry's most rigorous quality standards in manufacturing.

For more information about TruTech 3110 and the benefits of optimizing material selection for your application, contact your Cook Compression representative.

TruTech 3110 material provides the optimum balance of strength, flexibility and durability



TYPICAL PROPERTIES

Tensile strength	2700 psi (18.6 MPa)	ASTM D1708
Elongation	125%	ASTM D1708
Coefficient of thermal expansion	$65 \times 10^{-6}/^{\circ}\text{F}$ ($117 \times 10^{-6}/^{\circ}\text{C}$)	ASTM E831
Hardness	65 Shore D	ASTM D2240
Specific gravity	2.0	ASTM D792



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CookCompression.com

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Pistons | Rods | Cylinder Liners | Compressor and Engine Repair Services | Diagnostics and Analysis Services | Online Monitoring

and Response Systems | Lubrication Systems and Services | Control and Automation | Engineering and Technical Support