

# Rulon<sup>®</sup> 641 in the Mix with Reduced Wear & Noise

■ A partnership with  
TriStar gives you a  
competitive edge.



Rulon<sup>®</sup> 641

*Rulon 641 is a material most commonly known for traditional bearing and seal configurations. One of TriStar's customers – a major pharmaceutical company – was having issues with mechanical face seals and wondered if Rulon 641 might work in the application.*

*Mechanical face seals usually use two rigid counter faces made of carbon, ceramic or high metals. In pharmaceutical mixing units the selection is much more critical because of the debris potential. The customer also said that the current face materials were noisy and wore out quickly in the abrasive media being blended.*

## **A Requirement for FDA/USPVI Compliance Helped Lead us to a Solution**

Our engineers met with the plant engineers to discuss a non-metallic option for at least one of the faces, in the hopes of both eliminating the noise factor and improving the wear life of the seal. The customer also required the material to have both FDA and USP Class VI clearance.

TriStar had two self-lubricating options available in [Rulon 641](#) and [Rulon 1439](#). Since the mixing media could be either wet or dry at this facility, the Rulon 641 was chosen as the most appropriate material.

## **With Superior Performance Results Achieved, Cost Savings Follow**

After passing the tests for wear, elimination of noise and meeting the required regulatory issues, the Rulon 641 has now been approved for the seal faces as well as several other bearing applications around the plant.

Ultimately, the life extension has saved the customer thousands of dollars in downtime for replacements and made the work environment easier on the ears! [Download our Rulon white paper](#) to learn more about all of the most common Rulon materials.

We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



## CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



## Ultracomp<sup>®</sup>

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



## TriSteel<sup>™</sup>

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



## Rulon<sup>®</sup>

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



## Enhanced Materials Division

- Plasma Surface Treatment
- Specialized Primers & Coatings
- Material ID & Selection
- Process Engineering | Analysis & Testing



TriStar



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