

SAINT-GOBAIN SEALS APPLICATION CASE STUDY

Industrial: Case of the Unproductive Air Scroll Compressor



CUSTOMER CRITICAL DIFFERENCE

The air scroll compressor is not only used by end users in their refrigerators and freezers but also OEMs who supply to workshops and factories, all of which are critical in everyday use. With one actual moving part (one part that moves in a circle while the other is stationary), air is trapped between the two areas and then becomes compressed. With this design, the compressor remains quiet and maintenance is very easy.

When using local PTFE material, our customer was only able to get 1,000 to 2,000 hours of use; however, when using our **Rulon® 945 scroll tip seal**, the seal life was over 3,000 hours. Prior to our polymer solution, our customer was losing money due to replacement and maintenance of the critical part.

CONNECTED APPLICATION

➤ **Rulon® J seal**: Used in scroll vacuum pumps.

Solution Team: Shanghai, China Team

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Critical parts
making THE difference



SEALS

SAINT-GOBAIN

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PRODUCT SOLUTION

Rulon® 945

AREA

Air Scroll Compressor (used on high/low pressure area)

MATERIAL

PTFE (Color Black)

CRITICAL PART

Scroll Tip Seal

TECHNICAL DETAILS

- | | |
|--|--|
| <input type="checkbox"/> Media: Air | <input type="checkbox"/> Pressure: 0.3 MPa |
| <input type="checkbox"/> Temperature: 66°F (150°C) to 93°F (200°C) | <input type="checkbox"/> Speed: 2 m/s |
| | <input type="checkbox"/> Surface Roughness: Ra 0.8-1.2 |



BENEFITS AND ADDED VALUE

- Very low wear and deformation under load
- Excellent chemical resistance
- Good dimensional stability

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