



# Zurcon® Z25

HIGH-TEMPERATURE ZURCON® POLYURETHANE MATERIAL



**Zurcon® Z25 is the new state-of-the-art polyurethane material developed by Trelleborg Sealing Solutions that combines excellent viscoelastic properties and high tensile strength at extreme temperatures.**

Trelleborg Sealing Solutions has developed a proprietary polyurethane compound called Zurcon® Z25. It demonstrates all the excellent characteristics of industry-leading Zurcon® grade Z20 with an elevated operating temperature up to +130°C / +270°F.

The new premium polyurethane Zurcon® Z25 is recommended for all hydraulic applications where high temperature performance is required due to its improved extrusion resistance and compression set. Zurcon® Z25 is ideal for use in heavy duty cylinder sealing applications where it can guarantee a long service life. These include industrial and mobile applications with limited cooling systems or cylinders exposed to high-temperature painting processes.

It is also suitable for rotary applications such as swivel joints, where heat is generated by high pressures and low speeds.

### Features and benefits

- Wide operating temperature range from -35°C to +130°C / -31°F to +270°F
- Excellent friction characteristics
- Outstanding wear, extrusion and abrasion resistance
- Good elasticity
- Low compression set
- Extended sealing life in challenging environments
- Superior dynamic performance
- Operates in pressures up to 40 Mpa/5,800 psi without a Back-up Ring
- Self-energizing
- Suitable for use in hydraulic media
- Optimized performance from an MDI (diphenylmethane diisocyanate) material base

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#### Material and Design

By combining the optimum products and materials from Trelleborg Sealing Solutions, you can meet the increasing demands of hydraulic applications. For a recommendation on the best product and material for your application contact your local Trelleborg Sealing Solutions marketing company.

Zurcon® Z25 is available for the following product families:

- Zurcon® Rod seal: U-Cup RU9 and L-Cup
- Zurcon® Buffer Seal and RU6
- Zurcon® Scrapers: DA24, DA22 and WSW
- Zurcon® Roto Glyd Ring® S

Physical properties			Zurcon® Z25
<b>Hardness</b>	DIN 53 505	Shore A	<b>95 +/- 2</b>
<b>Density</b>	DIN EN ISO 1183-1	g/cm <sup>3</sup> lb/in <sup>3</sup>	<b>1.20 +/- 0.02</b> <b>0.043 +/- 0.0007</b>
<b>Modulus 100 %</b>	DIN 53 504	N/mm <sup>2</sup> psi	<b>14</b> <b>2,030</b>
<b>Tensile Strength</b>	DIN 53 504	N/mm <sup>2</sup> psi	<b>60</b> <b>8,700</b>
<b>Elongation at Break</b>	DIN 53 504	%	<b>520</b>
<b>Rebound Resilience</b>	DIN 53 512 (6mm)	%	<b>47</b>
<b>Tear Strength</b>	DIN ISO 34-1	N/mm <sup>2</sup> psi	<b>90</b> <b>13,050</b>
<b>C.S. 70h/70 °C</b> <b>70h/158 °F</b>	DIN ISO 815 (B)	%	<b>22</b>
<b>C.S. 70h/100 °C</b> <b>70h/212 °F</b>	DIN ISO 815 (B)	%	<b>36</b>
<b>Temperature range</b>		°C °F	<b>-35 °C to +130 °C</b> <b>-31 °F to + 270 °F</b>

