

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001

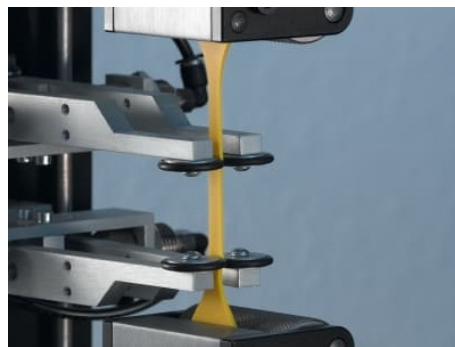
## INDUSTRIES AND APPLICATIONS



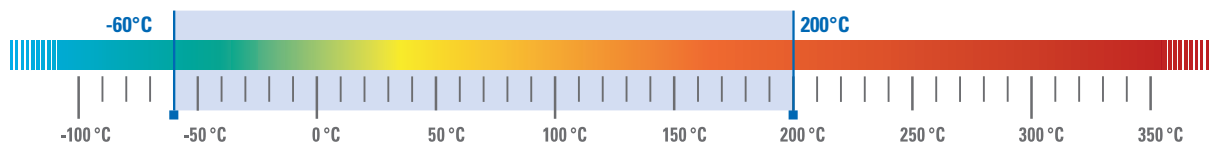
## HighQSi<sup>®</sup> PT + HighQSi<sup>®</sup> PT X

### Key properties

- Platinum vulcanised in 2 qualities
- Silicone with good tensile strength, improved to very good tear resistance (see table comparing qualities) and elongation at break
- Special setting +250°C/+240°C or +300°C/+280°C depending on shore hardness possible
- Resistant to UV and ozone (resistant to radiation and non-aging)
- Free of plasticiser, resistant to many chemicals
- No toxic combustion gases, very good fire resistance
- Transparent or coloured
- For many settings the material conforms with recommendation XV BfR and CFR 21 FDA §177.2600. Please get directly in touch with us.



### Application temperature



### Product description

From our specially developed HighQSi<sup>®</sup> range:

our platinum vulcanised grade HighQSi<sup>®</sup> PT has an improved tensile strength and tear resistance as well as elongation at break compared to the peroxide vulcanised grade HighQSi<sup>®</sup> HIT<sup>®</sup>, which are topped again by our grade HighQSi<sup>®</sup> PT X.

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## INDUSTRIES AND APPLICATIONS



**HighQSil® PT + HighQSil® PTX**

## HighQSil®PT

### Material Qualities

| Property                      | Standard                    | 30                         | 40                         | 50                         | 60                         | 70                         | 80                         | 90                         |
|-------------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Hardness<br>[Shore A]         | DIN 53505<br>DIN EN ISO 868 | 30±5                       | 40±5                       | 50±5                       | 60±5                       | 70±5                       | 80±5                       | 90<br>+0/-10               |
| Density<br>[g/cm³]            | DIN 53479<br>ISO/R 1183     | 1.11                       | 1.13                       | 1.14                       | 1.16                       | 1.18                       | 1.19                       | 1.23                       |
| Tensile Strength<br>[MPa]     | DIN 53504<br>ISO/DIS 37     | 9.5                        | 9.3                        | 9.5                        | 9.9                        | 9.3                        | 8.1                        | 7.0                        |
| Elongation @ Break<br>[%]     | DIN 53504<br>ISO/DIS 37     | 950                        | 845                        | 750                        | 710                        | 620                        | 450                        | 160                        |
| Tear Strength<br>[N/mm]       | ASTM D624B                  | 29                         | 39                         | 40                         | 39                         | 43                         | 38                         | 16                         |
| Operation Temperature<br>[°C] |                             | -60 / +200                 | -60 / +200                 | -60 / +200                 | -60 / +200                 | -40 / +180                 | -40 / +180                 | -40 / +180                 |
| Colour                        |                             | transparent or<br>coloured | transparent or<br>coloured | transparent or<br>coloured | transparent or<br>coloured | transparent or<br>coloured | transparent or<br>coloured | transparent or<br>coloured |

## HighQSil® PTX

### Material Qualities

| Property                      | Standard                    | X5                      | X6                      |
|-------------------------------|-----------------------------|-------------------------|-------------------------|
| Hardness<br>[Shore A]         | DIN 53505<br>DIN EN ISO 868 | 50±5                    | 60±5                    |
| Density<br>[g/cm³]            | DIN 53479<br>ISO/R 1183     | 1.14                    | 1.16                    |
| Tensile Strength<br>[MPa]     | DIN 53504<br>ISO/DIS 37     | 9.3                     | 9.2                     |
| Elongation @ Break<br>[%]     | DIN 53504<br>ISO/DIS 37     | 750                     | 730                     |
| Tear Strength<br>[N/mm]       | ASTM D624B                  | 50                      | 50                      |
| Operation Temperature<br>[°C] |                             | -60 / +200              | -60 / +200              |
| Colour                        |                             | transparent or coloured | transparent or coloured |