Latest Developments

Round or (semi-)hexagonal shank
Flat head with underhead seal
Open or closed end
Stainless steel, steel and aluminum

New watertight solution:
**Tubtara® with seal under the head**

- **Seal**

The non-reactive peripheral seal, made of flexible organic based material, can be applied under the head of a **Tubtara®**. It is resistant to many automotive oils, antifreeze and transmission fluids.

**Most common type:**

<table>
<thead>
<tr>
<th>Material</th>
<th>Polyurethane</th>
<th>Reusability</th>
<th>yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>blue</td>
<td>Bead form</td>
<td>concave</td>
</tr>
<tr>
<td>Sealing capacity</td>
<td>&gt; 150 bar</td>
<td>Cure method</td>
<td>heat cure</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-40° to +100°C</td>
<td>Waterproof</td>
<td>IP67 *</td>
</tr>
<tr>
<td>Shore hardness</td>
<td>50/65 A range</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*only guaranteed under Dejond test conditions – certificates available
Storage: min. 4 years shelf-life if stored in dry conditions (room temperature)

- **Tubtara® design**

The underhead seal reassures an IP 67 waterproof **Tubtara-sheet assembly** (if correctly installed). During installation of the **Tubtara®**, the material is gap filling, forming a robust seal between mating surfaces.

The seal thickness varies. Compared to the same part without seal, this implies a reduced grip range and increased head height. Factors like seal thickness, hole size and setting force influence head height after installation (K2). See catalogue pages for K2 reference values.

The seal can be applied:
- on **Tubtara's** in stainless steel, aluminium and coated steel,
- to the underhead bearing surface of a flat head **Tubtara®** (not recommended underneath countersunk or low profile heads),
- on **Tubtara's** with round or (semi-)hexagonal shank, open or closed end, from M4 till M12.

- **Samples**

For detailed product offer: see pg 13, pg 21, pg 29 and pg 35
Samples, pricing, lead times and alternative seal options available on request.

How to order or inquire: Please prefix the TUBTARA order code with 'R852-' example: R852-513550