4B Polysur® Steel Web Core Belt

Rubber Belt with a Steel Core for High Strength & Minimal Stretch

APPLICATION
The 4B Polysur® steel web core belt is a rubber elevator belt with a special steel cord core. The cords provide low elongation with high elasticity in the length, and cross rigidity in the width. The built-in elasticity allows running over slightly crowned pulleys which greatly improves belt tracking, and helps to avoid belt wandering which is often the reason for elevators shutting down. The rigid weft cords act as a barrier to ripping and tearing which increases the holding ability for the bucket bolts. This produces a good cross rigid belt resulting in excellent straight tracking characteristics.

In contrast, most conventional steel cable belts lack elasticity and consequently have to run over truly flat, cylindrical pulleys which increases the risk of belts off-tracking.

The 4B Polysur® steel web core belt is designed for heavy duty/industrial bucket elevator applications with long centre distances that require stable running and reliable belts with high safety factors. All 4B Polysur® steel web core belts are manufactured in accordance with DIN 22102 and ISO norms.

FEATURES
► Strength - up to 2,280 PIW (4,000 N/mm)
► Minimum Stretch - 3+3, 4+4, or 5+5 mm Covers
► Elongation at Maximum Working Load 0.35%
► Temp. Resistant up to 302 °F (150 °C) Continuous, Short Peaks 356 °F (180 °C)
► Bolt Holes Drilled to Customer Specifications
► Anti-Static

ACCESSORIES
► Industrial Elevator Buckets
► Braime Clamp Belt Splices
► Bolts & Washers

APPLICATIONS
- Cement Plants
- Fly Ash Facilities
- Fertilizer Plants
- Foundries
- Concrete Mixing Plants
- Glass Factories
- Grain Elevators in Port Silos

Please refer to instruction manual for correct installation. Information subject to change or correction. Oct 2015
**TECHNICAL SPECIFICATIONS**

**4B Polysur® Steel Web Core Belt for Bucket Elevators**

<table>
<thead>
<tr>
<th>Strength</th>
<th>Covers</th>
<th>Belt Thickness</th>
<th>Minimum Pulley Ø</th>
<th>Approximate Weight</th>
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<tr>
<td></td>
<td>PIW N/mm</td>
<td>in</td>
<td>mm</td>
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<tr>
<td>360</td>
<td>630</td>
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<td>4+4</td>
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<td>4+4</td>
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<td>3/16 x 3/16</td>
<td>5+5</td>
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<td>3/16 x 3/16</td>
<td>5+5</td>
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</table>

**4B Polysur® Steel Web Core Belts are Available in Six Types:**

- **T60** - Very good abrasion resistant quality, based on SBR rubber for use with ambient temperatures of 140°F (60°C).
- **T100** - Improved version of the T60 for temperatures of 194°F - 212°F (90°C - 100°C) and short peaks up to 248°F (120°C).
- **T130** - Based on EPDM rubber, suitable for product temperatures up to 266°F (130°C) and short peaks up to 302°F (150°C).
- **T150** - Based on EPM rubber, suitable for product temperatures up to 302°F (150°C) and short peaks up to 356°F (180°C).
- **G** - Suitable for handling oily and fatty product at temperatures up to 176°F (80°C).
- **ALE** - White rubber food quality suitable for non-fat food products at ambient temperatures.

**FREE**

**Elevator & Conveyor Engineering Design Service**

Take advantage of 4B’s free, guaranteed worldwide technical support service from a team of material handling engineers specializing in the design and upgrade of bucket elevators and conveyors.

**Braime Clamp (BC) Series Belt Fasteners for Steel Web Core Belts**

- **BC2** - 1,400 N/mm Weight - 3.17 lbs./in.
- **BC3** - 2,000 N/mm Weight - 3.98 lbs./in.
- **BC4** - 2,500 N/mm Weight - 5.38 lbs./in.

* Special order Braime Clamps available for belting over 2,500 N/mm