Brake Blocks
For Oilwell Drilling and Servicing Drawworks

Properties
Our brake blocks for drawworks allow users to enjoy the following advantages:

Smoke and Spark Proof Operation
This can be considered the most important characteristic of the product because it protects lives and the equipment involved in profound drilling operations. Non-combustible material has a fundamental characteristic: full liberation of gases and spark emissions.

Security
Weaving structure of blocks and friction stabilizers provide the brake with an optimum capacity.

Long Drum Life
The drums of drilling drawworks are kept cool, and under normal design conditions, they mitigate grooving and cracking in the friction surface.

Wear
Good wear rates provide product with a long useful life.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Friction Properties</th>
<th>Woven Block</th>
<th>Molded Block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friction Coefficient SAE J-661</td>
<td>0.48–0.44</td>
<td>0.51–0.49</td>
</tr>
<tr>
<td>Friction Code</td>
<td>GF</td>
<td>GG</td>
</tr>
<tr>
<td>Wear Test</td>
<td>0.42</td>
<td>0.49</td>
</tr>
<tr>
<td>Wear Rate (Dyna in³/hph)</td>
<td>0.010&quot;</td>
<td>0.007&quot;</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical and Mechanical Properties</th>
<th>Woven Block</th>
<th>Molded Block</th>
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</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.40</td>
<td>2.01</td>
</tr>
<tr>
<td>Swell</td>
<td>1.24%</td>
<td>0.97%</td>
</tr>
<tr>
<td>Growth</td>
<td>0.85%</td>
<td>0.23%</td>
</tr>
<tr>
<td>Hardness Gogan</td>
<td>286.1</td>
<td>27</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>Very Good</td>
<td>Excellent</td>
</tr>
</tbody>
</table>
Brake Blocks for Drawworks

Types of Brake Blocks that Conform a Set

There are two types of blocks available, each designed for a specific function:

Non-metallic Woven Brake Blocks

These are woven asbestos blocks, which contain wire in the backing only for added strength and are more resistant than full-metallic blocks; this type of block is often used on large drilling drawworks.

Woven Brake Block Properties:

- Very good flexibility, smoothness and conformability of the weaving structure with which our blocks are manufactured
- Good friction coefficient (CODE-GF)
- Heat dissipation, obeying to the semi-metallic backing of the blocks
- Firmness and controlled density of the weaving structure

“Wiper” molded Brake Blocks

These are molded blocks which are mounted at the dead end to scavenge metal particles from the rim, preventing them from lodging in the other blocks and scoring the rim. They also promote a better wear pattern. Wiper blocks are more abrasive than ordinary blocks and have a similar coefficient of friction.

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CHASE J-661 TEST CHARTS FOR WOVEN BRAKE BLOCKS

Contact Stewart & Stevenson for more information.