Silverline “SP”
Brake Blocks
For Oilwell Drilling and Servicing Drawworks

Properties of Silverline “SP”
Our brake blocks for drawworks, designed specifically for extra-profound penetration, allow the user to have the following advantages:

Smoke and Spark Proof Operation
The most important characteristics of the product. Protects lives and the equipment involved in profound drilling operations. Non-combustible material has a fundamental property: full liberation of gases and spark emissions.

Security
The weaving structure and the friction stabilizers provide the brake with an optimum braking capacity, for the most extreme requirements.

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, which are normally produced by extreme working conditions.

Useful Life of Silverline Brake Blocks
Engineered for a very long life, surpassing any existing conventional material and under the highest operational demands.

Reliability
Silverline “SP” was designed taking into account the experience of oilfield personnel. We effected exhaustive surveys with the end users involved in this unique operation and have obtained their complete satisfaction.

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
<th>WOVEN BLOCK</th>
<th>MOLDED BLOCK</th>
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</thead>
<tbody>
<tr>
<td><strong>FRICTION PROPERTIES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friction Coefficient SAE J-661</td>
<td>0.51–0.54</td>
<td>0.49–0.51</td>
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<tr>
<td>Friction Code</td>
<td>GF</td>
<td>GG</td>
</tr>
<tr>
<td>Wear Test</td>
<td>0.48</td>
<td>0.49</td>
</tr>
<tr>
<td>Wear Rate (DYNA in 1/3/hph)</td>
<td>0.010&quot;</td>
<td>0.007&quot;</td>
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<table>
<thead>
<tr>
<th>PHYSICAL AND MECHANICAL PROPERTIES</th>
<th>WOVEN BLOCK</th>
<th>MOLDED BLOCK</th>
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<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.43</td>
<td>2.01</td>
</tr>
<tr>
<td>Swell</td>
<td>0.36%</td>
<td>0.97%</td>
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<tr>
<td>Growth</td>
<td>0.22%</td>
<td>0.23%</td>
</tr>
<tr>
<td>Hardness Gogan</td>
<td>255.4</td>
<td>27</td>
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<tr>
<td>Flexural Strength</td>
<td>Excellent</td>
<td>Excellent</td>
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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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