

# 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

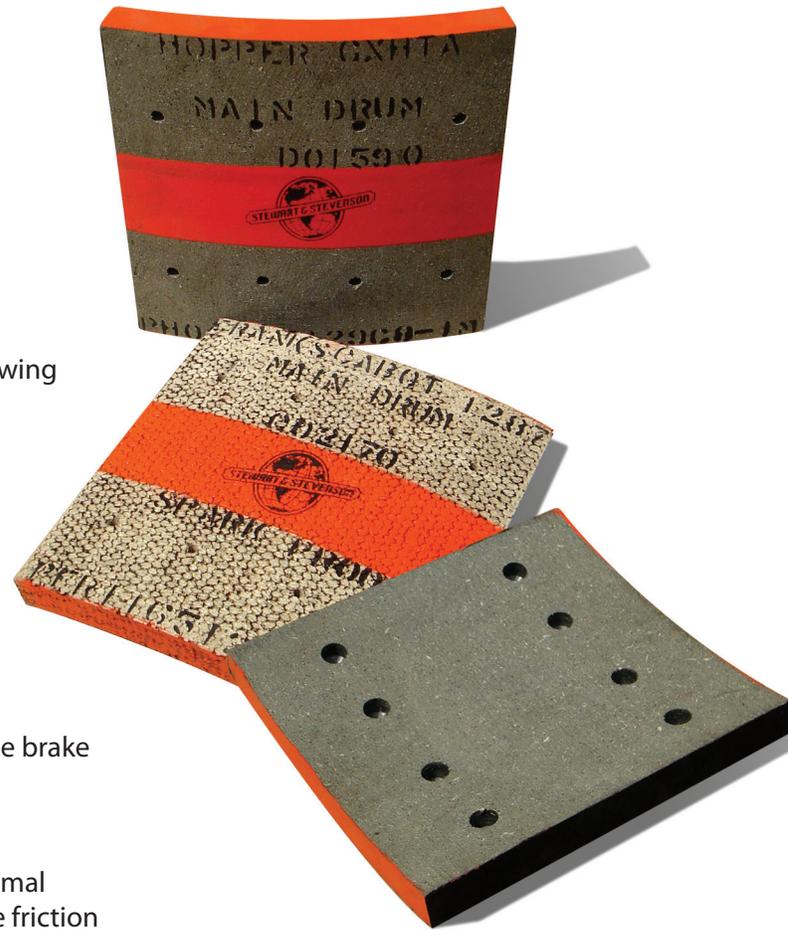
Weaving structure of blocks and friction stabilizers provide the brake with an optimum capacity.

#### 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		
FRICION PROPERTIES	WOVEN BLOCK	MOLDED BLOCK
FRICION COEFFICIENT SAE J-661	0.48–0.44	0.51–0.49
FRICION CODE	GF	GG
WEAR TEST	0.42	0.49
WEAR RATE (DYNA in <sup>3</sup> /hph)	0.010"	0.007"
PHYSICAL AND MECHANICAL PROPERTIES	WOVEN BLOCK	MOLDED BLOCK
SPECIFIC GRAVITY	1.40	2.01
SWELL	1.24%	0.97%
GROWTH	0.85%	0.23%
HARDNESS GOGAN	286.1	27
FLEXURAL STRENGTH	Very Good	Excellent



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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.

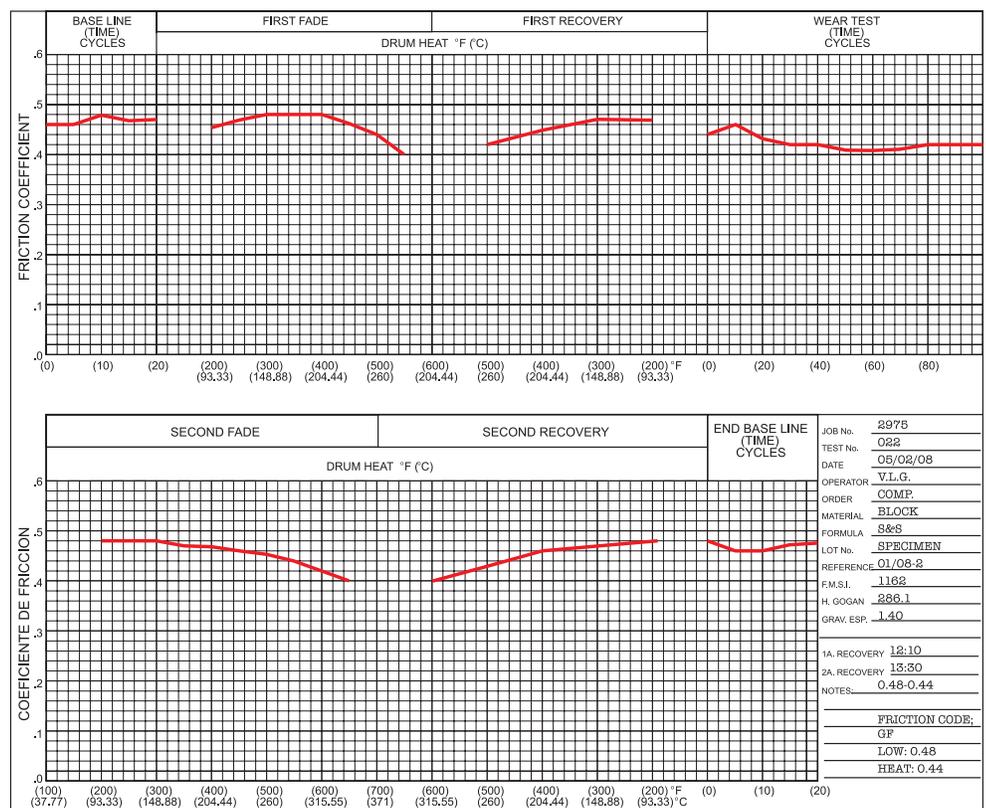
#### Woven Brake Block Properties:

- 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.

### CHASE J-661 TEST CHARTS FOR WOVEN BRAKE BLOCKS



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