

# 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.



### SPECIFICATIONS

FRICITION PROPERTIES	WOVEN BLOCK	MOLDED BLOCK
FRICITION COEFFICIENT SAE J-661	0.51-0.54	0.49-0.51
FRICITION CODE	GF	GG
WEAR TEST	0.48	0.49
WEAR RATE (DYNA in <sup>3</sup> /hph)	0.010"	0.007"
PHYSICAL AND MECHANICAL PROPERTIES	WOVEN BLOCK	MOLDED BLOCK
SPECIFIC GRAVITY	1.43	2.01
SWELL	0.36%	0.97%
GROWTH	0.22%	0.23%
HARDNESS GOGAN	255.4	27
FLEXURAL STRENGTH	Excellent	Excellent



A Century of Innovation

# 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.

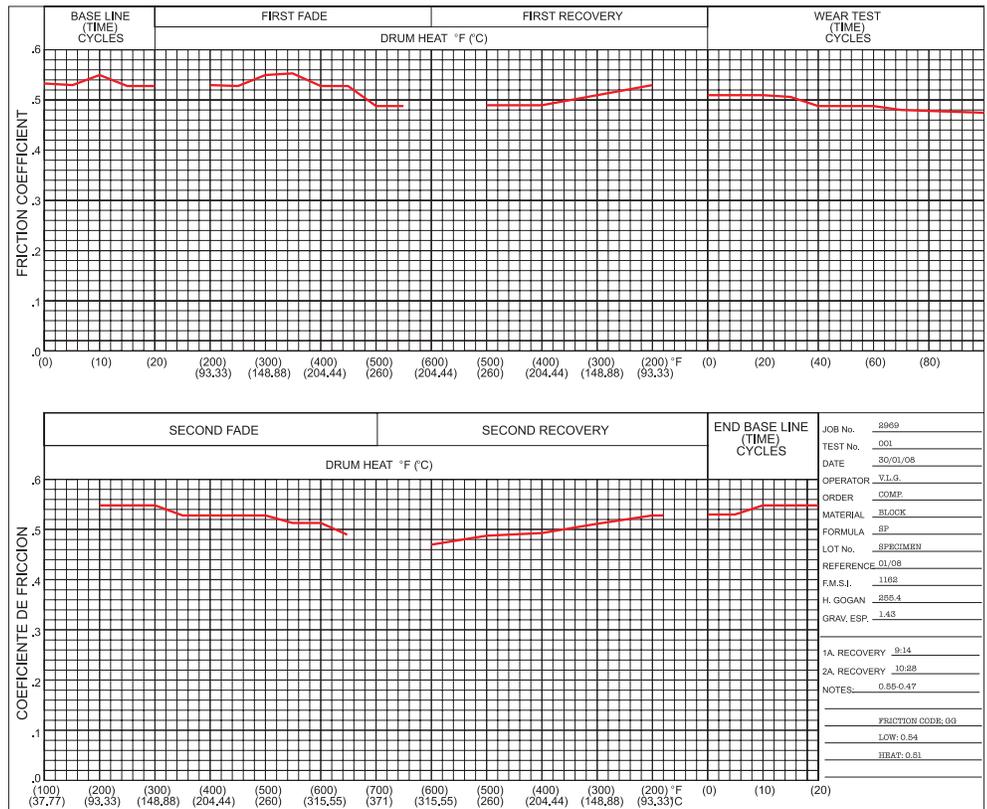
#### Woven Brake Block Properties:

- 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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