

# **BREMSKERL**

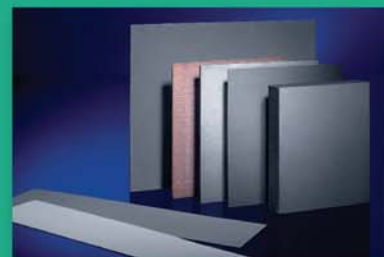
The Specialist  
for Brake  
and Clutch  
Linings 

## **Friction Material Products**

Industrial Applications  
Commercial Vehicles

Non-Asbestos  
RoHS & REACH Compliant Materials

Manufacturer of High Quality  
Friction Materials Since 1929



Woven Roll Lining  
Flexible Molded Roll Lining  
Wire Back Roll Lining  
Flat Sheets • Strips  
Overhead Crane Linings

Machinery Brake and  
Clutch Linings

Drum Brake Linings  
Disc Brake Pads (Air)

Metric Rivets



**Founded in 1929, Bremskerl is one of the world's leading manufacturers of non-asbestos friction materials for the following markets:**

## **Commercial Vehicles**

Air disc brake pads and drum brake linings for bus, trailer, truck and special purpose vehicles (military, mobile cranes, lift-trucks, tractors and agricultural trailer axles).

## **Industrial**

Flexible molded and woven roll linings, hot and cold pressed finished and semi-manufactured parts (e.g. rings, blocks, sheets).

## **Railway Systems**

Disc brake pads and brake blocks for freight rail and transit rail; including tram, light rail, rapid transit, monorail, commuter and national rail systems.

***Bremskerl friction materials are RoHS and REACH compliant.***



## Industrial Applications

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## Commercial Vehicle Applications

|                                                      |       |
|------------------------------------------------------|-------|
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# Flexible Molded Roll Lining

**Bremskerl 5300, 5396, 5505, 6905**  
**Non-Asbestos**

**BREMSKERL**

The Specialist  
for Brake  
and Clutch  
Linings 

## Benefits

- Stable at high temperatures
- Does not harden on shelf or crack when unrolled
- 99.9% cured yet still highly flexible
- Maintains design frictional characteristics after bonding

## Applications

- Industrial drum and band-brakes
- Antique vehicle drum brakes and emergency brake bands
- Marine winches
- Forklift drum brakes (Bremskerl 5300 is recommended)

## Sizes Available

**Width**  
1" – 8.85"  
(25.4mm – 225mm)

**Thickness**  
1/8" – 3/4"  
(3.18mm – 19mm)

**Length**  
32.8084' (up to 3/8" thick)  
16.4042' (1/2" thick)  
8.2' (3/4 – 5/8" thick)

## Technical Specifications

| Material Quality                   | 5300                   | 5505                   | 5396                   | 6905                   |
|------------------------------------|------------------------|------------------------|------------------------|------------------------|
| Coefficient of Friction (Design)   | .35μ                   | .35μ                   | .35μ                   | .40μ                   |
| Metal Inclusion                    | Steel                  | No                     | Steel                  | No                     |
| Max. Velocity                      | 118 ft/s               | 118 ft/s               | 98 ft/s                | 100 ft/s               |
| Max. Pressure                      | 290 lb/in <sup>2</sup> | 290 lb/in <sup>2</sup> | 290 lb/in <sup>2</sup> | 230 lb/in <sup>2</sup> |
| Max. Operating Temp - Continuous   | 480°F                  | 480°F                  | 480°F                  | 480°F                  |
| Max. Operating Temp - Intermittent | 750°F                  | 750°F                  | 840°F                  | 750°F                  |
| Applicable for use in Oil?         | No*                    | No*                    | No*                    | No*                    |

*\*Occasional splashes not detrimental*

*Data determined by small scale brake lining tests, may not be compatible to practice and further tests may be required.*

### Benefits

- Wire mesh allows full use of lining thickness
- Adding slits in lining allows formation to tighter radius

### Applications

- Industrial drum and band-brakes
- Antique vehicle drum brakes and emergency brake bands
- Marine winches
- Forklift drum brakes

### Sizes Available

| <u>Width</u>                   | <u>Thickness</u>               | <u>Length</u>                                                                   |
|--------------------------------|--------------------------------|---------------------------------------------------------------------------------|
| 1" – 8.85"<br>(25.4mm – 225mm) | 1/8" – 3/4"<br>(3.18mm – 19mm) | 32.8084' (up to 3/8" thick)<br>16.4042' (1/2" thick)<br>8.2' (3/4 – 5/8" thick) |

When ordering please specify internally or externally mounted wire back.

### Technical Specifications

|                                    |                        |
|------------------------------------|------------------------|
| <b>Material Quality</b>            | <b>5300</b>            |
| Coefficient of Friction (Design)   | .35μ                   |
| Metal Inclusion                    | Steel                  |
| Max. Velocity                      | 118 ft/s               |
| Max. Pressure                      | 290 lb/in <sup>2</sup> |
| Max. Operating Temp - Continuous   | 480°F                  |
| Max. Operating Temp - Intermittent | 750°F                  |
| Applicable for use in Oil?         | No*                    |

*\*Occasional splashes not detrimental*

*Data determined by small scale brake lining tests, may not be compatible to practice and further tests may be required.*

### Benefits

- High static holding power
- Excellent fade resistance
- Low wear rate
- Not aggressive to mating surface

### Applications

- Industrial drum and band-brakes
- Antique vehicle drum brakes and emergency brake bands
- Marine winches
- Drilling equipment

### Sizes Available

| <u>Width</u>                 | <u>Thickness</u>             | <u>Length</u> |
|------------------------------|------------------------------|---------------|
| 1" – 13"<br>(25.4mm – 330mm) | 5/32" – 1"<br>(4mm – 25.4mm) | 32.8084'      |

### Technical Specifications

|                                    |                        |
|------------------------------------|------------------------|
| <b>Material Quality</b>            | <b>4500</b>            |
| Coefficient of Friction (Design)   | .39μ                   |
| Metal Inclusion                    | Copper                 |
| Max. Velocity                      | 75 ft/s                |
| Max. Pressure                      | 290 lb/in <sup>2</sup> |
| Max. Operating Temp - Continuous   | 480°F                  |
| Max. Operating Temp - Intermittent | 750°F                  |
| Applicable for use in Oil?         | No*                    |

*\*Occasional splashes not detrimental*

*Data determined by small scale brake lining tests, may not be compatible to practice and further tests may be required.*

## Bremskerl 4520 Non-Asbestos



### Benefits

- Performance equal to OEM
- Competitive pricing

### Applications

- Sugar centrifuge brake bands

### Sizes Available

#### Segments

9" wide x 3/8" thick x 28.25" long

#### Rolls

9" wide x 3/8" thick x 32.8084'

### Technical Specifications

| Material Quality                   | 4520                   |
|------------------------------------|------------------------|
| Coefficient of Friction (Design)   | .46μ                   |
| Metal Inclusion                    | No                     |
| Max. Velocity                      | 17 ft/s                |
| Max. Pressure                      | 290 lb/in <sup>2</sup> |
| Max. Operating Temp - Continuous   | 212°F                  |
| Max. Operating Temp - Intermittent | 392°F                  |
| Applicable for use in Oil?         | Not tested             |

*Data determined by small scale brake lining tests, may not be compatible to practice and further tests may be required.*

## Benefits

- Ideal for small runs of custom parts and high volume stampings
- Wide range of material offerings to handle various application requirements

## Applications

- Suitable for a wide range of industrial applications requiring custom shapes such as rings and segments

## Sizes Available

| <u>Width</u>     | <u>Thickness</u>               | <u>Length</u>  |
|------------------|--------------------------------|----------------|
| 8.85"<br>(225mm) | .060" – 3/4"<br>(1.5mm – 19mm) | 33"<br>(850mm) |

## Technical Specifications

| Material Quality                   | 4199                   | 5396                   | 5505                   |
|------------------------------------|------------------------|------------------------|------------------------|
| Coefficient of Friction (Design)   | .38μ                   | .35μ                   | .35μ                   |
| Metal Inclusion                    | No                     | Steel                  | No                     |
| Max. Velocity                      | 65 ft/s                | 98 ft/s                | 118 ft/s               |
| Max. Pressure                      | 175 lb/in <sup>2</sup> | 290 lb/in <sup>2</sup> | 290 lb/in <sup>2</sup> |
| Max. Operating Temp - Continuous   | 570°F                  | 480°F                  | 480°F                  |
| Max. Operating Temp - Intermittent | 660°F                  | 840°F                  | 750°F                  |
| Applicable for use in Oil?         | Yes                    | No*                    | No*                    |

*\*Occasional splashes not detrimental*

*Data determined by small scale brake lining tests, may not be compatible to practice and further tests may be required.*

Bremskerl produces multiple formulations in flat strips not listed here. Please contact our sales department at (800) 939-4047 with your application requirements.

## Bremskerl 7221, 9510 Non-Asbestos



### Benefits

- 7221 is a high coefficient material with low brass content designed for applications with heavy mechanical loads
- 9510 is an economical, general purpose material with medium coefficient for a multitude of applications
- Material can be attached by thermoset adhesive or mechanical retention like rivets

### Applications

- Suitable for a wide range of industrial brake and clutch applications requiring custom shapes

### Sizes Available

|             | <u>Width x Length</u>         | <u>Thickness</u>                           |
|-------------|-------------------------------|--------------------------------------------|
| <b>7221</b> | 18" x 18" (460mm x 460mm)     | .078" - 3"                                 |
| <b>7221</b> | 22.8" x 29.5" (580mm x 750mm) | 3/16" - 1"                                 |
| <b>9510</b> | 22" x 22" (558mm x 558mm)     | 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" |

### Technical Specifications

| <b>Material Quality</b>            | <b>7221</b>            | <b>9510</b>            |
|------------------------------------|------------------------|------------------------|
| Coefficient of Friction (Design)   | .42μ                   | .34μ                   |
| Metal Inclusion                    | Brass                  | No                     |
| Max. Velocity                      | 65 ft/s                | 98 ft/s                |
| Max. Pressure                      | 360 lb/in <sup>2</sup> | 189 lb/in <sup>2</sup> |
| Max. Operating Temp - Continuous   | 480°F                  | 302°F                  |
| Max. Operating Temp - Intermittent | 750°F                  | 572°F                  |
| Applicable for use in Oil?         | No*                    | No*                    |

*\*Occasional splashes not detrimental*

*Data determined by small scale brake lining tests, may not be compatible to practice and further tests may be required.*

Bremskerl produces multiple formulations in flat sheets not listed here. Please contact our sales department at (800) 939-4047 with your application requirements.

All linings are supplied undrilled. The following is a list of stocked linings; if you require a size not listed please allow 24-48 hours for turn-around. Alternatively, Bremskerl 4818 and 5396 are available in roll form; please refer to page 2 for more information.

For DIN 15435 (European Spec.) overhead crane linings please refer to page 18.

When ordering please provide as much dimensional data below as known, alternatively we can cross-reference some competitor part numbers.

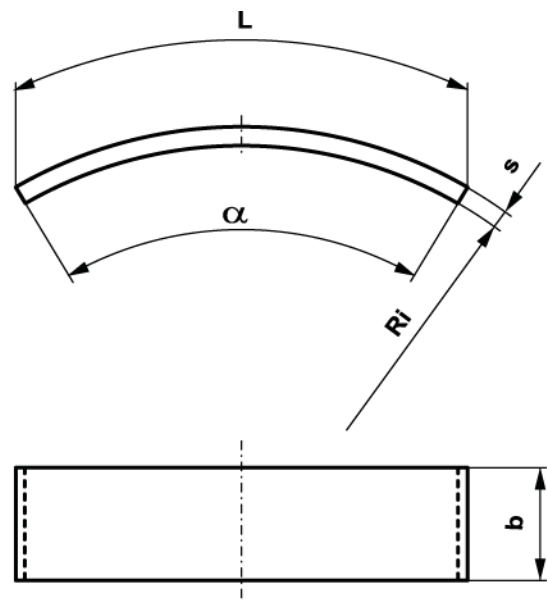
### Technical Specifications

| Material Quality                   | 4818                   | 5396                   |
|------------------------------------|------------------------|------------------------|
| Coefficient of Friction (Design)   | .40 $\mu$              | .35 $\mu$              |
| Metal Inclusion                    | Steel                  | Steel                  |
| Max. Velocity                      | 160 ft/s               | 98 ft/s                |
| Max. Pressure                      | 230 lb/in <sup>2</sup> | 290 lb/in <sup>2</sup> |
| Max. Operating Temp - Continuous   | 480°F                  | 480°F                  |
| Max. Operating Temp - Intermittent | 840°F                  | 840°F                  |
| Applicable for use in Oil?         | No*                    | No*                    |

\*Occasional splashes not detrimental

Data determined by small scale brake lining tests, may not be compatible to practice and further tests may be required.

- 1 ) Quantity ..... pieces
- 2 ) Lining Width            b ..... in
- 3 ) Lining Thickness        s ..... in
- 4 ) Long Arc Length        L ..... in
- 5 ) Drum Diameter        D ..... in  
or  
inside lining radius       Ri ..... in
- 6 ) Inside arc length         $\alpha$  ..... °



## 5" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.25"     | 2.75" | 4.50"    |

## 6" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.25"     | 3.00" | 4.00"    |
| 0.25"     | 3.00" | 5.25"    |
| 0.25"     | 3.25" | 4.93"    |
| 0.375"    | 3.00" | 5.3125"  |
| 0.375"    | 4.00" | 5.25"    |

## 7" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.25"     | 3.00" | 2.875"   |
| 0.25"     | 4.00" | 6.50"    |
| 0.375"    | 4.00" | 6.00"    |
| 0.50"     | 3.00" | 6.50"    |

## 8" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.25"     | 3.00" | 3.25"    |
| 0.25"     | 3.00" | 5.25"    |
| 0.25"     | 3.00" | 5.375"   |
| 0.25"     | 3.00" | 6.625"   |
| 0.25"     | 3.00" | 6.75"    |
| 0.25"     | 3.00" | 6.875"   |
| 0.25"     | 3.00" | 8.5"     |
| 0.3125"   | 3.00" | 6.75"    |
| 0.375"    | 3.00" | 6.1875"  |
| 0.375"    | 3.00" | 6.63"    |

## 8" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 3.00" | 6.75"    |
| 0.375"    | 3.50" | 7.0625"  |
| 0.375"    | 3.50" | 8.50"    |

## 8.5" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.25"     | 3.50" | 7.75"    |

## 9" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 4.00" | 7.625"   |

## 9.5" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.3125"   | 3.50" | 3.72"    |

## 10" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.25"     | 3.00" | 8.375"   |
| 0.25"     | 4.00" | 9.125"   |
| 0.3125"   | 3.50" | 4.125"   |
| 0.3125"   | 3.50" | 6.50"    |
| 0.3125"   | 3.50" | 6.625"   |
| 0.3125"   | 3.50" | 7.625"   |
| 0.3125"   | 4.00" | 7.75"    |
| 0.375"    | 3.50" | 6.625"   |
| 0.375"    | 3.50" | 7.5625"  |
| 0.375"    | 3.50" | 8.25"    |
| 0.375"    | 3.50" | 8.375"   |
| 0.375"    | 3.50" | 8.50"    |

## 10" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 4.00" | 8.25"    |
| 0.375"    | 4.00" | 8.75"    |
| 0.375"    | 4.50" | 9.125"   |
| 0.375"    | 5.00" | 8.50"    |
| 0.50"     | 3.50" | 8.50"    |
| 0.50"     | 4.00" | 8.50"    |

## 11" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 4.00" | 9.00"    |
| 0.375"    | 4.50" | 9.25"    |

## 12" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 4.00" | 9.875"   |
| 0.375"    | 4.50" | 12.75"   |
| 0.375"    | 6.00" | 10.00"   |

## 12.5" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.3125"   | 3.25" | 14.75"   |

## 13" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.25"     | 5.00" | 10.00"   |
| 0.25"     | 5.00" | 11.75"   |
| 0.375"    | 4.00" | 4.75"    |
| 0.375"    | 5.00" | 10.625"  |
| 0.375"    | 5.50" | 5.4375"  |
| 0.375"    | 5.50" | 8.00"    |

## 13" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 5.50" | 8.1875"  |
| 0.375"    | 5.50" | 10.50"   |
| 0.375"    | 5.50" | 10.75"   |
| 0.375"    | 5.50" | 11.50"   |
| 0.375"    | 6.00" | 11.00"   |
| 0.4375"   | 5.50" | 8.75"    |
| 0.50"     | 3.50" | 5.4375"  |
| 0.50"     | 5.25" | 5.75"    |
| 0.50"     | 5.25" | 11.00"   |
| 0.50"     | 5.50" | 5.4375"  |
| 0.50"     | 5.50" | 9.83"    |
| 0.50"     | 5.50" | 10.625"  |
| 0.50"     | 5.50" | 10.75"   |
| 0.50"     | 5.50" | 11.00"   |
| 0.50"     | 6.00" | 11.625"  |

## 13.25" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.50"     | 4.25" | 5.50"    |

## 13.5" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 5.75" | 10.75"   |
| 0.375"    | 5.75" | 11.125"  |

## 14" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.25"     | 6.00" | 11.00"   |
| 0.375"    | 4.50" | 8.00"    |

## 14" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 5.00" | 11.50"   |
| 0.375"    | 5.50" | 10.6875" |
| 0.375"    | 6.00" | 11.625"  |
| 0.375"    | 6.50" | 13.3125" |
| 0.50"     | 4.50" | 11.625"  |
| 0.50"     | 6.00" | 11.375"  |
| 0.50"     | 6.00" | 11.75"   |

## 15" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.50"     | 6.50" | 13.625"  |

## 16" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 6.00" | 13.625"  |
| 0.375"    | 6.50" | 10.25"   |
| 0.375"    | 6.50" | 12.94"   |
| 0.375"    | 6.50" | 13.25"   |
| 0.375"    | 6.50" | 13.375"  |
| 0.375"    | 7.00" | 13.00"   |
| 0.50"     | 4.00" | 10.00"   |
| 0.50"     | 4.50" | 13.00"   |
| 0.50"     | 6.50" | 10.5625" |
| 0.50"     | 6.50" | 12.75"   |
| 0.50"     | 6.50" | 13.00"   |
| 0.50"     | 6.50" | 13.25"   |
| 0.50"     | 6.50" | 13.375"  |
| 0.50"     | 6.50" | 13.50"   |

## 16" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.50"     | 6.50" | 11.9375" |
| 0.50"     | 8.00" | 16.00"   |
| 0.5625"   | 6.50" | 10.719"  |
| 0.625"    | 6.50" | 6.36"    |
| 0.625"    | 6.50" | 6.75"    |
| 0.625"    | 6.50" | 13.10"   |
| 0.75"     | 6.00" | 13.75"   |

## 17" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.625"    | 6.25" | 7.10"    |

## 18" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 6.00" | 14.75"   |
| 0.375"    | 6.00" | 15.125"  |
| 0.375"    | 6.00" | 14.75"   |
| 0.375"    | 6.00" | 15.125"  |
| 0.375"    | 7.00" | 14.50"   |
| 0.50"     | 8.00" | 14.75"   |
| 0.625"    | 6.50" | 7.375"   |
| 0.75"     | 8.00" | 15.00"   |

## 19" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 8.50" | 15.50"   |
| 0.50"     | 8.00" | 15.50"   |
| 0.50"     | 8.50" | 12.1875" |
| 0.50"     | 8.50" | 15.50"   |

**19" Drum Diameter**

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.625"    | 8.50" | 7.60"    |
| 0.625"    | 8.50" | 7.875"   |
| 0.625"    | 8.50" | 12.625"  |
| 0.625"    | 8.50" | 14.1875" |
| 0.625"    | 8.50" | 15.50"   |

**20" Drum Diameter**

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 8.00" | 16.00"   |
| 0.50"     | 8.25" | 16.00"   |
| 0.625"    | 8.00" | 16.75"   |

**21" Drum Diameter**

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 7.00" | 17.375"  |
| 0.50"     | 7.00" | 13.50"   |
| 0.625"    | 7.00" | 8.625"   |

**22" Drum Diameter**

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 8.50" | 15.50"   |
| 0.50"     | 6.00" | 15.50"   |

**23" Drum Diameter**

| Thickness | Width  | Long Arc |
|-----------|--------|----------|
| 0.375"    | 11.00" | 16.00"   |
| 0.375"    | 11.00" | 18.75"   |
| 0.50"     | 9.00"  | 18.75"   |
| 0.50"     | 11.00" | 14.50"   |
| 0.50"     | 11.00" | 14.75"   |

## 23" Drum Diameter

| Thickness | Width   | Long Arc |
|-----------|---------|----------|
| 0.50"     | 11.00"  | 18.00"   |
| 0.50"     | 11.00"  | 18.75"   |
| 0.625"    | 8.00"   | 9.4375"  |
| 0.625"    | 11.00"  | 9.50"    |
| 0.625"    | 11.00"  | 17.00"   |
| 0.625"    | 11.00"  | 18.75"   |
| 0.75"     | 5.4375" | 9.5625"  |
| 0.75"     | 11.00"  | 6.20"    |
| 0.75"     | 11.00"  | 7.50"    |
| 0.75"     | 11.00"  | 9.5625"  |
| 0.75"     | 11.00"  | 18.50"   |
| 0.75"     | 11.00"  | 18.75"   |
| 0.75"     | 11.00"  | 19.25"   |
| 0.75"     | 11.00"  | 19.50"   |

## 24" Drum Diameter

| Thickness | Width | Long Arc |
|-----------|-------|----------|
| 0.375"    | 6.00" | 14.00"   |

## 26" Drum Diameter

| Thickness | Width  | Long Arc |
|-----------|--------|----------|
| 0.75"     | 10.00" | 10.75"   |

## 30" Drum Diameter

| Thickness | Width  | Long Arc |
|-----------|--------|----------|
| 0.375"    | 6.00"  | 24.125"  |
| 0.375"    | 8.00"  | 24.625"  |
| 0.375"    | 14.00" | 24.00"   |
| 0.625"    | 14.00" | 12.3125" |

## 30" Drum Diameter

| Thickness | Width   | Long Arc |
|-----------|---------|----------|
| 0.75"     | 6.1875" | 12.3125" |
| 0.75"     | 6.9375" | 12.3125" |
| 0.75"     | 7.00"   | 12.3125" |
| 0.75"     | 14.00"  | 12.3125" |

### Benefits

- OE quality material
- Material designed for high energy applications

### Applications

- DIN 15435 drum brakes

### Sizes Available

| <u>Bremskerl Part #</u> | <u>Width x Thickness x Long Arc</u> | <u>Drum Diameter</u> |
|-------------------------|-------------------------------------|----------------------|
| 53870001                | 70mm x 8mm x 132mm                  | 200mm                |
| 53870003                | 90mm x 8mm x 162mm                  | 250mm                |
| 53870005                | 110mm x 10mm x 204mm                | 315mm                |
| 53870007                | 140mm x 10mm x 256mm                | 400mm                |
| 53870009                | 180mm x 12mm x 300mm                | 500mm                |
| 53870011                | 225mm x 12mm x 400mm                | 630mm                |
| 53870037                | 225mm x 15mm x 452mm                | 710mm                |

### Technical Specifications

|                                    |                        |
|------------------------------------|------------------------|
| <b>Material Quality</b>            | <b>5387</b>            |
| Coefficient of Friction (Design)   | .40μ                   |
| Metal Inclusion                    | Steel                  |
| Max. Velocity                      | 82 ft/s                |
| Max. Pressure                      | 230 lb/in <sup>2</sup> |
| Max. Operating Temp - Continuous   | 480°F                  |
| Max. Operating Temp - Intermittent | 750°F                  |
| Applicable for use in Oil?         | Yes                    |

*Data determined by small scale brake lining tests, may not be compatible to practice and further tests may be required.*

### Benefits

- Rings premade to specific sizes
- Allows you to turn to size without scraping material from plates

### Applications

- Suitable for a wide range of industrial applications

### Sizes Available

**O.D. x I.D.**  
10.11" x 7.85"  
10.35" x 3.81"  
11.16" x 6.37"

**Thickness**  
3/16" and 1/4"

### Technical Specifications

| Material Quality                   | 4199                   | 6230                   |
|------------------------------------|------------------------|------------------------|
| Coefficient of Friction (Design)   | .38μ                   | .42μ                   |
| Metal Inclusion                    | No                     | No                     |
| Max. Velocity                      | 65 ft/s                | 98 ft/s                |
| Max. Pressure                      | 175 lb/in <sup>2</sup> | 290 lb/in <sup>2</sup> |
| Max. Operating Temp - Continuous   | 570°F                  | 480°F                  |
| Max. Operating Temp - Intermittent | 660°F                  | 750°F                  |
| Applicable for use in Oil?         | Yes                    | No*                    |

*\*Occasional splashes not detrimental*

*Data determined by small scale brake lining tests, may not be compatible to practice and further tests may be required.*

### Benefits

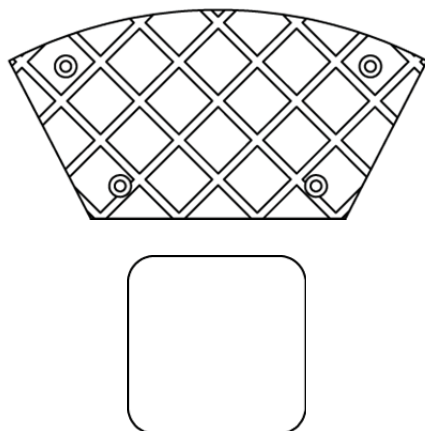
- Original Equipment material for many applications
- Lower wear when compared to aftermarket materials
- Exact fit

### Applications

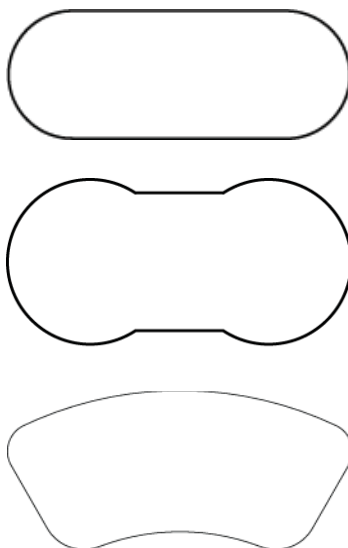
- Paper Machinery (example: Goss, Voith)
- Brake/Clutch Combinations (example: Desch, Ortlinghaus)
- Wire Stranding Machines (example: Stolberger)

### Sizes Available

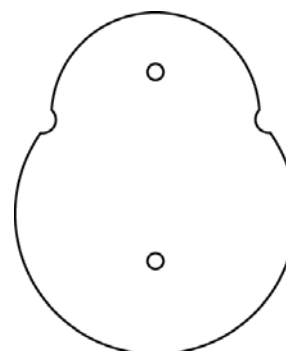
**Pads/Segments**



**Pucks**



**Snowmen**



Please contact our sales department at (800) 939-4047 regarding specific applications.

### Benefits

- FMVSS 121 Approved Materials at 23,000 lbs. and 28,600 lbs. axle rating
- ECE R90 Approved Materials
- Low wear to rotor
- Break-in surface coating provides excellent performance right out of the box
- Axle sets include 4 pads and installation accessories

### Applications

- Coach and Transit Bus
- Truck, Trailer and Refuse

### Caliper Application Guide

| <u>Brake Caliper</u>                     | <u>Bremskerl Part #</u> |
|------------------------------------------|-------------------------|
| Bendix ADB22X™<br>Knorr SK7™             | 80400016                |
| Haldex DB22                              | 80060046<br>80100026    |
| Knorr SB6™                               | 80100010<br>80400023    |
| Knorr SB7™<br>Knorr SN7™                 | 80100008<br>80400017    |
| Meritor EX225 H2                         | 80100024<br>80400015    |
| Meritor Lucas D3<br>Meritor Lucas D-ELSA | 80100022<br>80400020    |
| Meritor Lucas D-ELSA 2                   | 80100013<br>80400018    |
| Meritor Lucas D-LISA                     | 80100021<br>80400019    |
| WABCO PAN 17™                            | 80100020<br>80400022    |
| WABCO PAN 19-1 Plus™<br>WABCO MAXX™ 19   | 80100011<br>80400024    |
| WABCO PAN 22-1™<br>WABCO MAXX™ 22        | 80100023<br>80400025    |

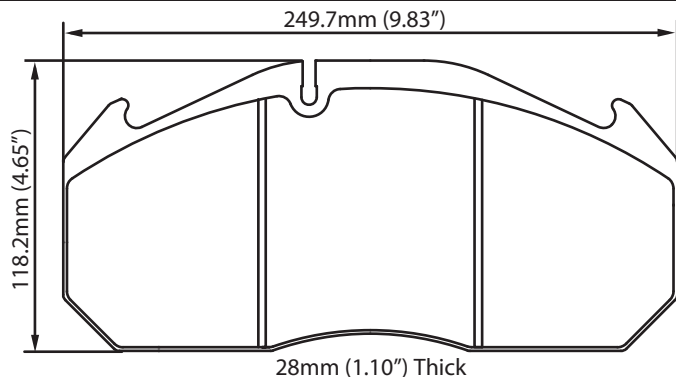
# Air Disc Brake Pads

**Bremskerl 8040 / 8010**  
**Non-Asbestos**

**BREMSKERL**

The Specialist  
for Brake  
and Clutch  
Linings

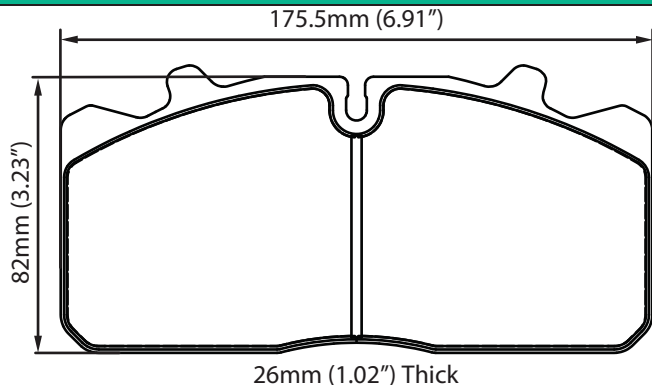
## WVA 29030



**Bremskerl 8010 Part #: 80100022**  
**Bremskerl 8040 Part #: 80400020**  
**Brake Caliper: Meritor D3 / D-ELSA**

Spring bars & fitting kit accessories included

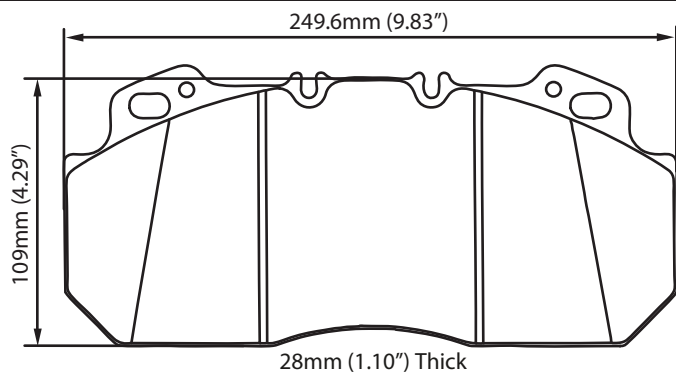
## WVA 29088



**Bremskerl 8010 Part #: 80100020**  
**Bremskerl 8040 Part #: 80400022**  
**Brake Caliper: WABCO PAN 17™**

Spring bars & fitting kit accessories included

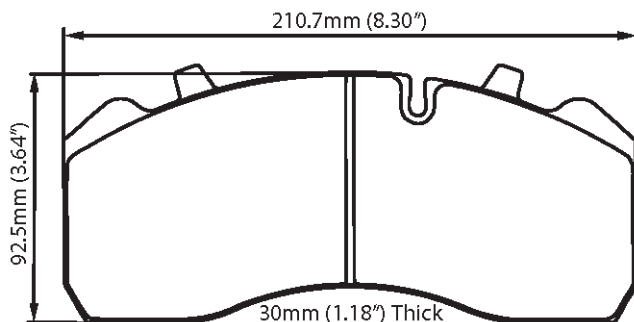
## WVA 29090



**Bremskerl 8010 Part #: 80100021**  
**Bremskerl 8040 Part #: 80400019**  
**Brake Caliper: Meritor Lucas D-Lisa**

Spring bars & fitting kit accessories included

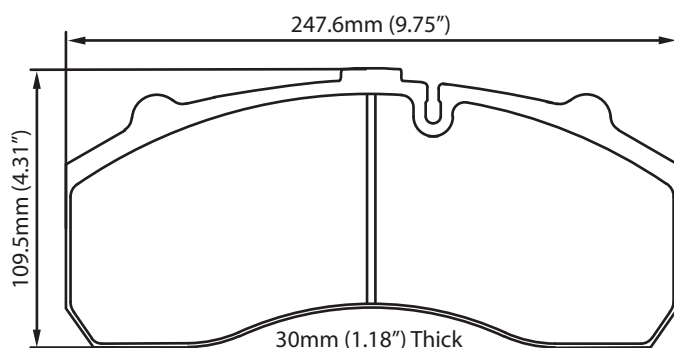
## WVA 29093



**Bremskerl 8010 Part #: 80100010**  
**Bremskerl 8040 Part #: 80400023**  
**Brake Caliper: Knorr SB6™**

Spring bars, hold down bars & fitting kit accessories included

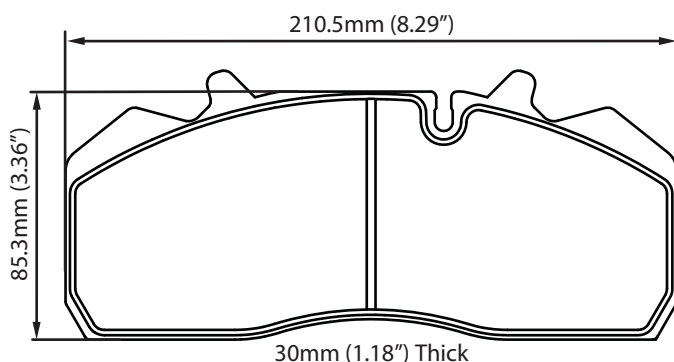
## WVA 29106 / 29087



**Bremskerl 8010 Part #: 80100008**  
**Bremskerl 8040 Part #: 80400017**  
**Brake Caliper: Knorr SB7™ / SN7™**

Spring bars, hold down bars & fitting kit accessories included

## WVA 29126



**Bremskerl 8010 Part #: 80100011**  
**Bremskerl 8040 Part #: 80400024**  
**Brake Caliper: WABCO PAN 19-1 Plus™ / MAXX™ 19**

Spring bars & fitting kit accessories included

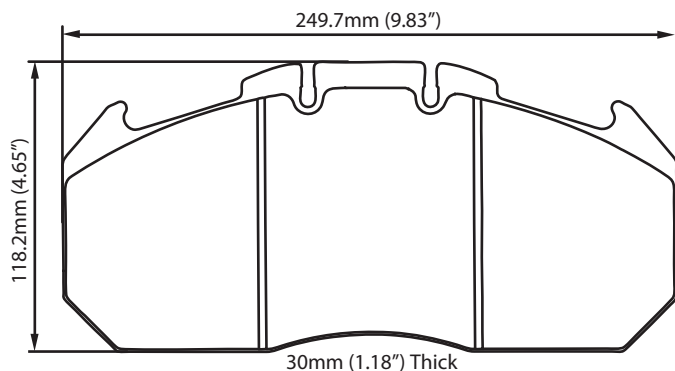
# Air Disc Brake Pads

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**Non-Asbestos**

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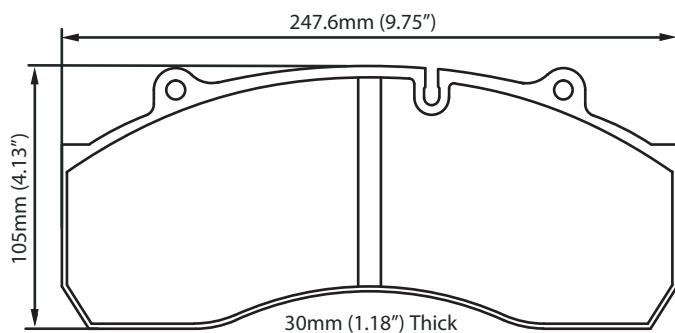
## WVA 29131



**Bremskerl 8010 Part #: 80100013**  
**Bremskerl 8040 Part #: 80400018**  
**Brake Caliper: Meritor Lucas Elsa-2**

Spring bars & fitting kit accessories included

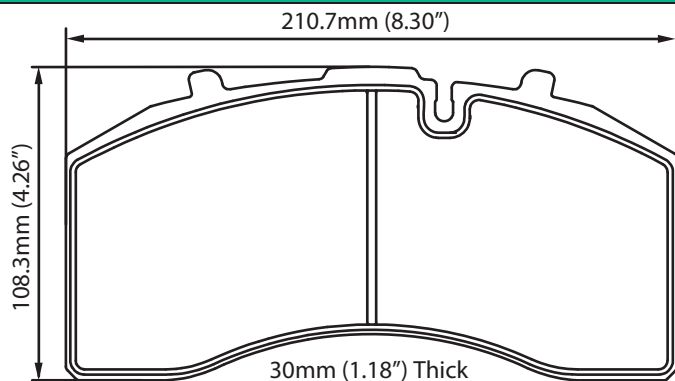
## WVA 29143



**Bremskerl 8010 Part #: 80100026**  
**Bremskerl 8006 Part #: 80060046**  
**Brake Caliper: Haldex DB22**

Spring bars & fitting kit accessories included

## WVA 29158



**Bremskerl 8040 Part #: 80400016**  
**Brake Caliper: Knorr SK7™ / Bendix ADB22X™**

Spring bars, hold down bars & fitting kit accessories included

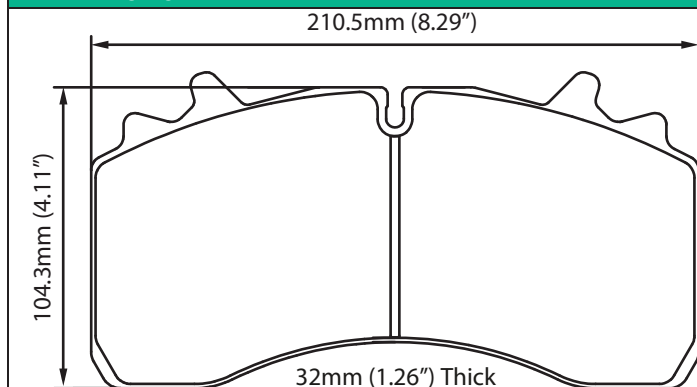
# Air Disc Brake Pads

**Bremskerl 8040 / 8010**  
**Non-Asbestos**

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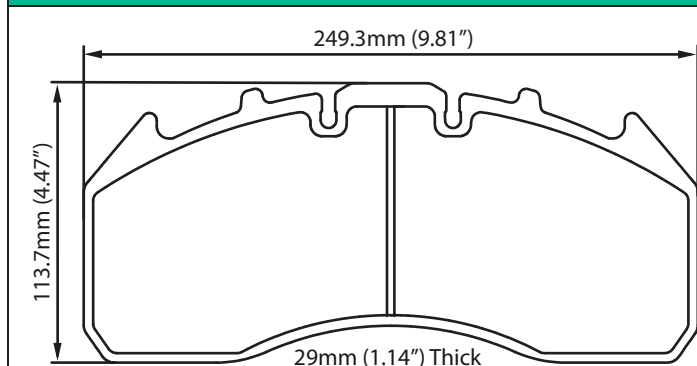
## WVA 29162



**Bremskerl 8010 Part #: 80100023**  
**Bremskerl 8040 Part #: 80400025**  
**Brake Caliper: WABCO PAN 22-1™ / MAXX™22**

Spring bars & fitting kit accessories included

## WVA 29187



**Bremskerl 8010 Part #: 80100024**  
**Bremskerl 8040 Part #: 80400015**  
**Brake Caliper: Meritor EX225 H2**

Spring bars & fitting kit accessories included

## Bremskerl 6275 Non-Asbestos



Bremskerl 6275: .43μ (design), Original Equipment Lining

**Applications** All-Terrain Cranes: Terex/Demag AC, Grove GMK, Krupp KMK, Liebherr LTM, Tadano Faun ATF, Linkbelt ATC

|                      |                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WVA 17237            |                                                                                                                                                                                                                                           |
| <p>120mm (4.72")</p> | <p><b>Bremskerl Part #:</b> 62750082<br/><b>Brake Type:</b> 500 x 120<br/><b>Lining width:</b> 120mm (~4.72")<br/><b>Drum diameter:</b> 500mm (19.68")<br/><b>Rivets required per lining:</b> 8<br/><b>Rivet size:</b> DIA. 10 x L 18</p> |
| WVA 17374            |                                                                                                                                                                                                                                           |
| <p>120mm (4.72")</p> | <p><b>Bremskerl Part #:</b> 62750133<br/><b>Brake Type:</b> 500 x 120<br/><b>Lining width:</b> 120mm (~4.72")<br/><b>Drum diameter:</b> 500mm (19.68")<br/><b>Rivets required per lining:</b> 10<br/><b>Rivet size:</b> DIA. 8 x L 20</p> |
| WVA 19041            |                                                                                                                                                                                                                                           |
| <p>180mm (7.08")</p> | <p><b>Bremskerl Part #:</b> 62750135<br/><b>Brake Type:</b> 500 x 180<br/><b>Lining width:</b> 180mm (~7.08")<br/><b>Drum diameter:</b> 500mm (19.68")<br/><b>Rivets required per lining:</b> 14<br/><b>Rivet size:</b> DIA. 8 x L 20</p> |

## Bremskerl 6275 Non-Asbestos



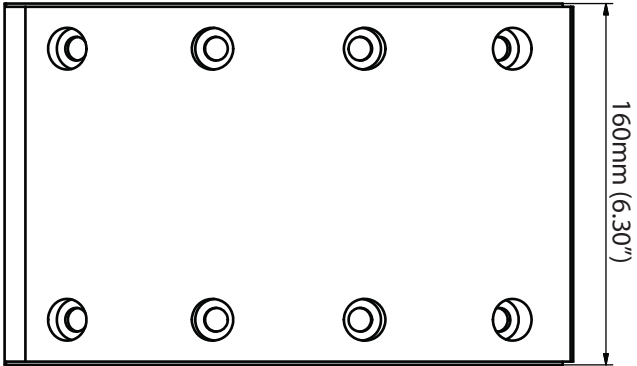
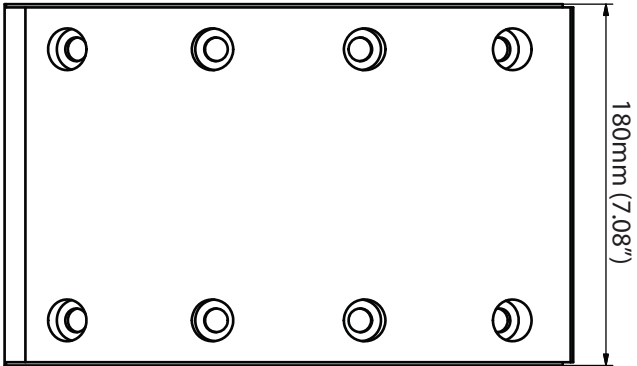
**Bremskerl 6275:** .43μ (design), Original Equipment Lining

**Applications** All-Terrain Cranes: Terex/Demag AC, Grove GMK, Krupp KMK, Liebherr LTM, Tadano Faun ATF, Linkbelt ATC

| WVA 19042 |                                                                                                                                                                                                                                                |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <p><b>Bremskerl Part #:</b> 62750134<br/> <b>Brake Type:</b> 500 x 160<br/> <b>Lining width:</b> 160mm (~6.30")<br/> <b>Drum diameter:</b> 500mm (19.68")<br/> <b>Rivets required per lining:</b> 10<br/> <b>Rivet size:</b> DIA. 8 x L 20</p> |
| WVA 19113 |                                                                                                                                                                                                                                                |
|           | <p><b>Bremskerl Part #:</b> 62750139<br/> <b>Brake Type:</b> 410 x 180<br/> <b>Lining width:</b> 180mm (~7.08")<br/> <b>Drum diameter:</b> 410mm (16.14")<br/> <b>Rivets required per lining:</b> 10<br/> <b>Rivet size:</b> DIA. 8 x L 20</p> |
| WVA 19723 |                                                                                                                                                                                                                                                |
|           | <p><b>Bremskerl Part #:</b> 62750094<br/> <b>Brake Type:</b> 410 x 180<br/> <b>Lining width:</b> 180mm (~7.08")<br/> <b>Drum diameter:</b> 410mm (16.14")<br/> <b>Rivets required per lining:</b> 8<br/> <b>Rivet size:</b> DIA. 10 x L 18</p> |

Bremskerl 6275: .43μ (design), Original Equipment Lining

**Applications** All-Terrain Cranes: Terex/Demag AC, Grove GMK, Krupp KMK, Liebherr LTM, Tadano Faun ATF, Linkbelt ATC

| WVA 19687                                                                          |                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Bremskerl Part #:</b> 62750086<br/><b>Brake Type:</b> 500 x 160<br/><b>Lining width:</b> 160mm (~6.30")<br/><b>Drum diameter:</b> 500mm (19.68")<br/><b>Rivets required per lining:</b> 8<br/><b>Rivet size:</b> DIA. 10 x L 18</p> |
| WVA 19690                                                                          |                                                                                                                                                                                                                                           |
|  | <p><b>Bremskerl Part #:</b> 62750090<br/><b>Brake Type:</b> 500 x 180<br/><b>Lining width:</b> 180mm (~7.08")<br/><b>Drum diameter:</b> 500mm (19.68")<br/><b>Rivets required per lining:</b> 8<br/><b>Rivet size:</b> DIA. 10 x L 18</p> |

## Bremskerl 6386 Non-Asbestos



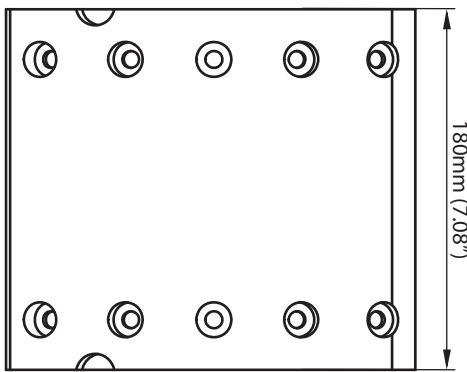
**Bremskerl 6386:** .40μ (design), Original Equipment Lining

### Applications

Axles: SAF, BPW

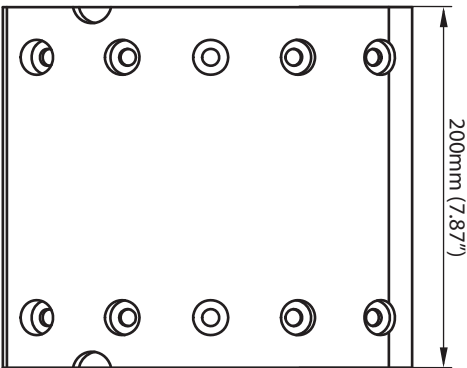
Heavy Haul, Modular and Self-Propelled Trailers

#### WVA 19032



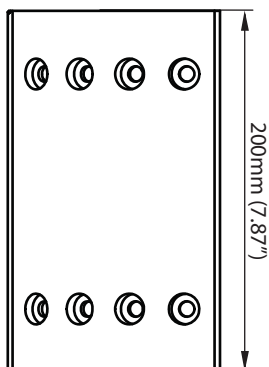
**Bremskerl Part #:** 63860526  
**Brake Type:** SNF & BPW 420 x 180  
**Lining width:** 180mm (~7.08")  
**Drum diameter:** 420mm (16.54")  
**Rivets required per lining:** 10

#### WVA 19094



**Bremskerl Part #:** 63860529  
**Brake Type:** 420 x 200  
**Lining width:** 200mm (~7.87")  
**Drum diameter:** 420mm (16.54")  
**Rivets required per lining:** 10

#### WVA 19515 / 19516



**Bremskerl Part #:** 63860129  
**Brake Type:** 300 x 200  
**Lining width:** 200mm (~7.87")  
**Drum diameter:** 300mm (11.81")  
**Rivets required per lining:** 8

## Bremskerl 6386 Non-Asbestos



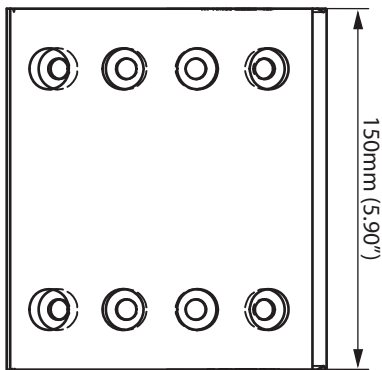
**Bremskerl 6386:** .40μ (design), Original Equipment Lining

### Applications

Axles: SAF, BPW

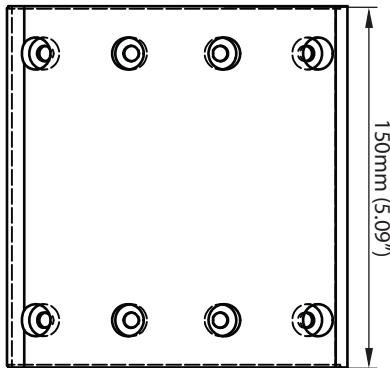
Heavy Haul, Modular and Self-Propelled Trailers

#### WVA 19517 / 19518



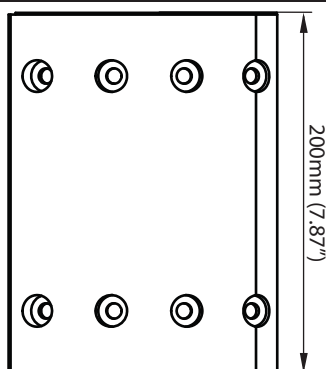
**Bremskerl Part #:** 63860132  
**Brake Type:** 300 x 150  
**Lining width:** 150mm (~5.09")  
**Drum diameter:** 300mm (11.81")  
**Rivets required per lining:** 8

#### WVA 19573



**Bremskerl Part #:** 63860470  
**Brake Type:** 300 x 150  
**Lining width:** 150mm (~5.09")  
**Drum diameter:** 300mm (11.81")  
**Rivets required per lining:** 8

#### WVA 19574



**Bremskerl Part #:** 63860371  
**Brake Type:** 300 x 200  
**Lining width:** 200mm (~7.87")  
**Drum diameter:** 300mm (11.81")  
**Rivets required per lining:** 8

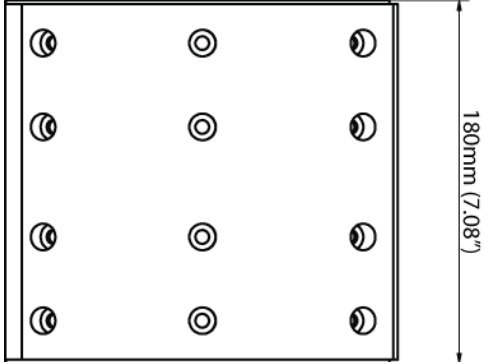
## Bremskerl 6500 Non-Asbestos



**Bremskerl 6500:** .40μ (design), Original Equipment Lining

**Applications** SISU Axles SRDP-30-S

Yard Trucks / Terminal Tractors (Balqon, Capacity of Texas, Kalmar, TICO)

|                                                                                    |                                                                                                                                                                   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>Bremskerl Part #:</b> 65000075-76<br/> <b>Brake Type:</b> 410 x 180<br/> <b>Lining width:</b> 180mm (~7.08")<br/> <b>Drum diameter:</b> 410mm (~16.14")</p> |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Size | Description | Quantity/Package |
|------|-------------|------------------|
|------|-------------|------------------|

## Semi-Tubular

|         |                     |         |
|---------|---------------------|---------|
| 8x15mm  | Zinc plated steel   | 100/bag |
| 8x18mm  | Zinc plated steel   | 100/bag |
| 8x20mm  | Copper coated steel | 100/bag |
| 10x18mm | Copper coated steel | 100/bag |

## Fully Tubular

|         |                              |                 |
|---------|------------------------------|-----------------|
| 8x15mm  | Zinc plated steel            | 100/bag or bulk |
| 8x20mm  | Die-point, zinc plated steel | 100/bag or bulk |
| 10x16mm | Zinc plated steel            | 100/bag or bulk |
| 10x17mm | Zinc plated steel            | 100/bag or bulk |
| 10x18mm | Zinc plated steel            | 100/bag or bulk |
| 10x20mm | Zinc plated steel            | 100/bag or bulk |

*Other metric rivet sizes are available by special order. The minimum for special order is 5,000pcs.*





There is a name for reliable friction linings

#### **BREMSKERL NORTH AMERICA, INC.**

Contact Information:

Phone: (800) 939-4047

Fax: (630) 540-2791

E-mail: [sales@bremskerl.com](mailto:sales@bremskerl.com)

Operations and administration:

1291 Humbracht Circle

Bartlett, IL 60103

USA

[www.bremskerl.com](http://www.bremskerl.com)

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Linings

