# Cat® Extended Life Friction Material



## Longer Life and Consistent Braking Power

Caterpillar offers a friction material that provides extended life and increased heat resistance in wet brake systems. In certain applications, friction material may no longer be the limiting factor in the life of a final drive. Caterpillar® Extended Life Friction Material uses an innovative carbon paper for braking. This is a significant step forward in braking, especially in heavy-load applications like mining. The new carbon friction material has more than double the life, resulting in less cost per hour than the standard paper friction material. A unique bonding process adds strength and helps prevent premature failures. Cat® Extended Life Friction Material offers these improvements.

- Improved material life
- Consistent braking power
- Better heat resistance
- Less glazing
- Better wear rate

## Proven In The Field

Caterpillar develops and tests Extended Life Friction Material for each machine application. All friction material must undergo a stringent certification process to ensure it performs to Cat specifications.

Cat Extended Life Friction Material provides proven safety and reliability, the result of extensive testing in the field. Other brands may not go through such extensive validation.

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# Cat® Extended Life Friction Material

## Brakes using Cat® Extended Life Friction Material outperform standard paper brake discs

The graph demonstrates the relative wear life of Cat® Extended Life Friction Material is up to four times greater than the Cat standard paper material and is twice as resistant to glazing. This resistance to glazing, which occurs during periods of high-temperature braking, provides consistent braking power. It may also lessen audible brake noise.

## Brake life better matched to Final Drive Life Cycle

The chart below illustrates the potential reduction in the number of friction discs required and labor hours saving over the life of final drive overhaul cycles for Off-Highway Trucks using Cat Extended Life Friction vs Cat standard friction discs.

## Availability

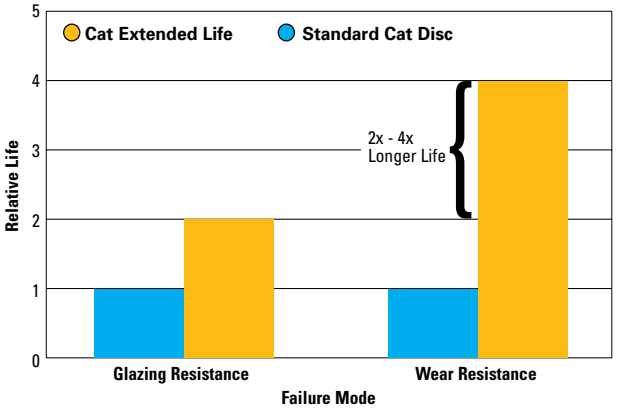
Final drive with Cat Extended Life Friction Material are being gradually introduced on machine models. Contact us to find which models currently have this option.

## Brake Kits

Cat Extended Life Friction Material is available in brake kits for selected models. Give us a call for details on availability.

### Relative Life of Brake Friction Materials

*Results May Vary Depending on Application & Severity*




### Friction Material Cost Comparison

TIME

| Application | Final Drive Overhaul | Friction Disc Replacement Only | Final Drive Overhaul | Friction Disc Replacement Only | Final Drive Overhaul | Fewer Friction Discs Consumed* | Labor Hours Savings* |
|---|---|---|---|---|---|---|---|
| Light | ● ● | | ● | | ● ● | 33% | None |
| Normal | ● ● | ● | ● ● | ● | ● ● | 40% | 64-102 |
| Severe | ● ● | ● ● | ● ● | ● ● | ● ● | 57% | 128-204 |

● Cat Extended Life ● Standard Cat Disc

* Percentages reflect fewer friction discs consumed final drive overhaul cycles using the Cat Extended Life Discs over Standard Discs. Labor hour savings based on brake replacements performed outside of normal final drive overhaul cycle and may vary based on machine type (Models 777-789).

For more information about Cat Extended Life Friction Material and our complete line of drive train components for all Cat machines and applications, stop by or give us a call today.

## CAT® DEALERS DEFINE WORLD-CLASS PRODUCT SUPPORT.

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PEHJ0052-01
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