

**Operating Conditions
Demand The Correct
Cover Compound.**

Fenner Dunlop covers are designed for specific applications to ensure greater belt life, which equates to cost savings for the customer. Each cover compound is derived and engineered from natural and/or synthetic rubber polymers.

Whether the primary operational concern is abrasion, heat, oil or sub-zero temperatures, Fenner Dunlop has a wide range of cover compounds designed specifically to meet the most demanding operating requirements.



ENHANCED PERFORMANCE
CONVEYING PERFORMANCE
TO THE POWER OF 3

Heat Resistant Covers

DeltaHeat™

- Premium hot material compound providing superb protection against prolonged exposure to high temperature payloads and abrasive materials
- Temperature resistant to 400° F (205° C) for abrasive coarse lumps (2 inches +/- 50mm +/-) and 350° F (175° C) for abrasive fines
- Designed to resist the negative effects of cover cracking, hardening, tearing and flexing associated with high temperature environments
- Applications include, but are not limited to: hot cement clinker, iron ore pellets, casting sand, and hot asphalt rock

White DeltaHeat™

- Premium hot material compound providing superb protection against prolonged exposure to high temperature payloads and abrasive materials
- Temperature resistant to 400° F (205° C) for abrasive coarse lumps (2 inches +/- 50mm +/-) and 350° F (175° C) for abrasive fines
- Off White-color compound, designed to resist the negative effects of cover cracking, hardening, tearing and flexing associated with high temperature environments

Butyl

- Provides good abrasion and chemical resistance in elevated operating temperature environments
- Temperature resistant to 350° F (175° C) for abrasive coarse lumps (2 inches +/- 50mm +/-) and 300° F (150° C) for abrasive fines
- Applications include but are not limited to: cement clinker, calcined lime, foundry sand and clay

Sahara®

- Provides good abrasion resistance in elevated operating temperature environments
- Temperature resistant to 300° F (150° C) for abrasive coarse lumps (2 inches +/- 50mm +/-) and 250° F (120° C) for abrasive fines
- Ideal for hot dusty products and environments

Sahara® SAR (Super Abrasion Resistant)

- Provides superior abrasion resistance in elevated operating temperature environments
- Temperature resistant to 300° F (150° C) for abrasive coarse lumps (2 inches +/- 50mm +/-) and 250° F (120° C) for abrasive fines
- Recommended for hot cement clinker, iron ore pellets, casting sand, and hot phosphate rock with in the recommended temperature range

Heat & Oil Resistant Covers

OHR (Oil & Heat Resistant)

- Excellent resistance to oil and heat up to 250° F (120° C) temperatures for coarse lumps (2 inches +/- 50mm +/-) and 200° F (93° C) for abrasive fines
- Recommended for conveying hot mixtures containing diesel oil as well as kerosene, petroleum coke, hot asphalt, paving mixes and carbon pitch
- Ideal for oil extractors and applications handling oily grains and seeds where the belt must withstand the effects of vegetable oils at high temperatures as well as moisture from steam

SOHR (Super Oil & Heat Resistant)

- Superior resistance to oil and heat up to 350° F (175° C) for coarse lumps (2 inches +/- 50mm +/-) and 300° F (150° C) for abrasive fines
- Recommended for conveying hot mixtures containing diesel oil as well as kerosene, petroleum coke, hot asphalt, paving mixes and carbon pitch

COMPOUNDS

Compound Specifications



| RECOMMENDED COVER THICKNESS | | | | |
|---|-------------------|-------------|----------------------|------|
| CLASS OF MATERIAL | MINIMUM TOP COVER | | MINIMUM BOTTOM COVER | |
| | (Inches) | (mm) | (Inches) | (mm) |
| NON-ABRASIVE MATERIALS - WOOD CHIPS, PULP, GRAIN, LOOSE CEMENT, POTASH ORE, OR VERY FINE COAL | 1/16 to 1/8 | 1.5 to 3.0 | 1/16 | 1.5 |
| MILDLY ABRASIVE MATERIALS - SHARP SAND, CLINKER, EARTH, BITUMINOUS COAL AND ROCK UNDER 3" SIZE. | 1/8 to 3/16 | 3.0 to 4.5 | 1/16 | 1.5 |
| ABRASIVE MATERIALS - ANTHRACITE COAL, COKE, SINTER, GRAVEL, OR CRUSHED STONE. OVERBURDEN OR COAL UP TO 10" SIZE. IRON AND COPPER ORES OR LIMESTONE UNDER 6" SIZE | 3/16 to 1/4 | 4.5 to 6.0 | 3/32 | 2.0 |
| HEAVY ABRASIVE MATERIALS - IRON, COPPER, ROCK ORES, ZINC, LEAD ORES, OR ROM COAL, LIMESTONE OR SLAG UNDER 9" SIZE. | 1/4 to 3/8 | 6.0 to 9.5 | 1/8 | 3.0 |
| HEAVY, SHARP ABRASIVE MATERIALS - TRAP ROCK, QUARTZ, HARD ORES, SLAG, GLASS CULLET. ANY HARD HEAVY SHARP ORE OVER 9" SIZE. | 3/8 to 3/4 | 9.5 to 19.0 | 3/16 | 4.5 |

| MILLIMETER AND DECIMAL EQUIVALENTS FOR COVER THICKNESS | | | | | | | | | | | | | | | |
|--|-------|-------|------|-------|-------|-------|------|-------|-------|--------|------|--------|-------|--------|------|
| 3/64" | 1/16" | 3/32" | 1/8" | 5/32" | 3/16" | 7/32" | 1/4" | 9/32" | 5/16" | 11/32" | 3/8" | 13/32" | 7/16" | 15/32" | 1/2" |
| 1.2 | 1.5 | 2.3 | 3.1 | 3.9 | 4.7 | 5.5 | 6.3 | 7.1 | 7.9 | 8.7 | 9.5 | 10.3 | 11.1 | 11.9 | 12.7 |
| .047 | .062 | .094 | .125 | .156 | .188 | .219 | .250 | .281 | .312 | .344 | .375 | .406 | .438 | .469 | .500 |

| COVER WEIGHT FACTORS (PIW) | 1/32" | 1/16" | 3/32" | 1/8" | 5/32" | 3/16" | 7/32" | 1/4" | 9/32" | 5/16" | 11/32" | 3/8" | 13/32" | 7/16" | 15/32" | 3/8" |
|---------------------------------|-------|-------|-------|------|-------|-------|-------|------|-------|-------|--------|------|--------|-------|--------|------|
| COVER WEIGHT FACTORS MM (PIW) | .79 | 1.5 | 2.3 | 3.1 | 3.9 | 4.7 | 5.5 | 6.3 | 7.1 | 7.9 | 8.7 | 9.5 | 10.3 | 11.1 | 11.9 | 12.7 |
| GENERAL PURPOSE | .016 | .032 | .048 | .064 | .080 | .096 | .112 | .128 | .144 | .160 | .176 | .192 | .208 | .224 | .240 | .256 |
| FIRE RESISTANT | .018 | .036 | .054 | .072 | .090 | .108 | .126 | .144 | .162 | .180 | .198 | .216 | .234 | .252 | .270 | .288 |
| OIL RESISTANT | .017 | .033 | .050 | .067 | .084 | .100 | .117 | .134 | .150 | .167 | .184 | .200 | .217 | .233 | .250 | .267 |
| FIRE & OIL RESISTANT | .018 | .035 | .053 | .071 | .088 | .106 | .124 | .141 | .159 | .177 | .195 | .212 | .230 | .248 | .266 | .284 |
| HEAT RESISTANT | .015 | .030 | .045 | .059 | .074 | .089 | .104 | .119 | .133 | .148 | .163 | .178 | .193 | .208 | .223 | .238 |
| HEAT & OIL RESISTANT | .017 | .034 | .052 | .069 | .086 | .103 | .120 | .137 | .155 | .172 | .189 | .206 | .223 | .240 | .257 | .274 |

| RECOMMENDED SERVICE TEMPERATURES | HOT MAXIMUM LOAD TEMPERATURE | | | | COLD - LOW TEMPERATURE LIMIT | |
|---|------------------------------|-------|-------------------|-------|------------------------------|-------|
| | FINES OR MIXED | | COARSE 2" OR OVER | | | |
| TYPE OF COMPOUND | | | | | | |
| CWOR, MATCHLESS, MATCHLESS PLUS | 180°F | 82°C | 200°F | 93°C | -50°F | -46°C |
| GRANITE, GUARDIAN AR, PLATINUM, TITANIUM, MSHA-SFAR | 180°F | 82°C | 200°F | 93°C | -40°F | -40°C |
| MOG, MOR, MSHA-FF, ORP, ORWP, UGH | 180°F | 82°C | 200°F | 93°C | -30°F | -34°C |
| FIRE BOSS PLUS, MSHA-FFORN, ORN, MSHA-FFORNS | 205°F | 96°C | 225°F | 110°C | -15°F | -26°C |
| FIRE BOSS, MSHA-F | 180°F | 82°C | 200°F | 93°C | -30°F | -34°C |
| MSHA-FF, UGH | 180°F | 82°C | 200°F | 93°C | -30°F | -34°C |
| CGH, CSA-FF, CSA-FFOR, MSHA-FAR, MSHA-FFOR, MSH-FFAR, MSHA-SFAR | 180°F | 82°C | 200°F | 93°C | -40°F | -40°C |
| DELTAHEAT, WHITE DELTAHEAT | 350°F | 175°C | 400°F | 205°C | -40°F | -40°C |
| BUTYL | 300°F | 150°C | 350°F | 175°C | -40°F | -40°C |
| SAHARA, SAHARA SAR | 250°F | 120°C | 300°F | 150°C | -40°F | -40°C |
| OHR | 200°F | 93°C | 250°F | 120°C | -10°F | -23°C |
| SOHR | 300°F | 150°C | 350°F | 175°C | -10°F | -23°C |
| CSA-FFAR | 180°F | 82°C | 200°F | 93°C | -40°F | -40°C |
| GUARDIAN, ALUM | 200°F | 93°C | 225°F | 110°C | -30°F | -34°C |

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