

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

Fire Retardant Covers

MSHA-F

- Fire Retardant abrasion resistant MSHA compound that meets U.S. Mine Safety and Health Administration requirements per MSHA Title 30, Section 18.65
- For underground mining applications

MSHA-FF

- Fire Retardant abrasion resistant MSHA compound that meets U.S. Mine Safety and Health Administration requirements per MSHA Title 30, Section 18.65
- UV and ozone protection for above ground applications

Fire Boss®

- Meets MSHA Title 30 and ISO 340 standards
- Ideal when an increased fire retardant level is desirable
- For underground mining

Fire Boss Plus®

- Grade I compound
- Compliant with ASTM E162 and the Australian standards AS4606 / AS1332 providing a high degree of resistance to fire propagation with premium abrasion and moderate oil resistance

MSHA-FAR

- Fire Retardant abrasion resistant MSHA compound that meets U.S. Mine Safety and Health Administration requirements per MSHA Title 30, Section 18.65
- Excellent abrasion resistant cover compound for mining applications where MSHA specifications are required
- For underground applications

MSHA-FFAR

- Fire Retardant abrasion resistant MSHA compound that meets U.S. Mine Safety and Health Administration requirements per MSHA Title 30, Section 18.65
- Excellent abrasion resistant cover compound for mining and industrial applications where MSHA specifications are required
- For surface applications

MSHA-SFAR

- Fire Retardant abrasion resistant MSHA compound that meets U.S. Mine Safety and Health Administration requirements per MSHA Title 30, Section 18.65
- Superior abrasion resistant cover compound for mining applications where MSHA specifications are required
- Premium abrasion resistant underground compound

CSA-FF

- Fire Retardant cover compound with abrasion resistance for mining and industrial applications
- Meets Canadian Standards Association M422 – M87 current specification for Grade C or B2
- For surface applications

CSA-FFAR

- Fire Retardant cover compound with greater abrasion resistance for mining and industrial applications
- Meets Canadian Standards Association M422 – M87 current specification for Grade C or B2
- For surface applications

Guardian™

- Specifically designed to counter the negative effects of leaching agents as well as dust suppressants
- Meets MSHA 2-G requirements
- Increased resistance to abrasion and cover wear
- Recommended for Power Generation Facilities and Coal Prep Plants

Guardian™ AR (RMA Grade II)

- High quality grade II fire retardant compound specifically designed to counter the negative effects of leaching agents as well as dust suppressants
- Meets MSHA 2-G requirements
- Excellent abrasion and cover wear characteristics
- Recommended for Power Generation Facilities and Coal Prep Plants

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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