

**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 & Oil Resistant Covers

UGH™ (Ultra Grain Handler)

- Provides maximum oil resistance to the destructive effects of grain oils and oil based dust suppressant additives. Temperature range -30° to 200° F (-30°C to 93°C)
- Surpasses U.S. Occupational Safety and Health Administration specifications for static conductivity. Cover is also flame retardant per MSHA Title 30, Section 18.65 requirements
- Designed for oil treated grain, crushed soybeans and other materials where mineral, animal, or vegetable fats are a deteriorating factor and where combustion properties are a concern

CGH™ (Classic Grain Handler)

- Moderate oil resistant covers for grain handling
- Compounded for colder operating climates. Temperature range -40° to 200° F (-40°C to 93°C)
- Surpasses U.S. Occupational Safety and Health Administration specifications for static conductivity. CGH Cover compound is also flame retardant per MSHA Title 30, Section 18.65 requirements
- Electrical resistance to 300 megohms maximum
- Designed for whole oily grains, including wheat, corn, soybeans, cotton seed, flax seed, and sunflower seed

CSA-FFOR (Fire Freeze & Oil Resistant)

- Fire Retardant cover compound that meets Canadian Standards Association M422 – M87 current specification for Grade C or B2
- Moderate oil resistant covers for grain handling
- Compounded for colder operating climates. Temperature range -40° to 200° F (-40°C to 93°C)
- Surpasses U.S. Occupational Safety and Health Administration specifications for static conductivity. CSA-FFOR cover compound is also flame retardant per MSHA Title 30, Section 18.65 requirements
- Electrical resistance to 300 megohms maximum
- Designed for whole oily grains, including wheat, corn, soybeans, cotton seed, flax seed, and sunflower seed

MSHA-FFOR

- Fire Retardant abrasion resistant MSHA compound that meets U.S. Mine Safety and Health Administration requirements per MSHA Title 30, Section 18.65
- Medium Oil Resistant compound for Power Generation and Coal Preparation applications where oil resistance and MSHA specifications are required
- For above ground applications

MSHA – FFORN

- Freeze resistant and fire retardant MSHA compound with Neoprene
- Moderate oil resistant properties
- Static conductive

MSHA – FFORNS

- Fire retardant MSHA compound with Neoprene and SBR rubber
- Moderate oil resistant properties

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	.247	.265	.282
HEAT RESISTANT	.015	.030	.045	.059	.074	.089	.104	.119	.133	.148	.163	.178	.192	.207	.221	.236
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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