

**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

# Oil Resistant Covers

## ***CWOR (Cold Weather Oil Resistant)***

- Outstanding resistance to the very difficult combined effects of cold, abrasion and petroleum products
- Cold Weather Temperature resistance to -50° F (-46° C)
- Recommended for conveying tar sands, bitumen, oil sprayed coal and similar materials

## ***MOG (Moderate Oil Resistance – Grade II)***

- Resistant to the deteriorating effects of moderately oily materials and terpenes
- Superior abrasion resistance to MOR

## ***MOR (Moderate Oil Resistance)***

- Recommended for specialized service such as wood chips, whole grains like corn and soybeans, waste disposal, sewage, sludge and lightly oil treated materials
- Resistant to the deteriorating effects of moderately oily materials and terpenes

## ***ORN (Oil Resistant Neoprene)***

- Excellent resistance to abrasion and deteriorating effects of heavy concentrations of crude oils, lubricating oils and greases
- Recommended for conveying lightly oily covered coke, abrasive granules and dry sulfur

## ***ORP (Oil Resistance Plus)***

- Superior resistance to materials containing high concentrations of animal fats and oils
- Recommended for use involving heavy exposure to aromatic hydrocarbons such as petroleum based oily coke, benzol and toluene

## ***ORWP (Oil Resistance Wood Pitch)***

- Premium moderately oil resistant compound for the Forest Products Industry
- Resists deteriorating effects of terpenes. Ideal for lumber and wood chip handling

# COMPOUNDS

# Compound Specifications



RECOMMENDED COVER THICKNESS				
CLASS OF MATERIAL	MINIMUM TOP COVER		MINIMUM BOTTOM COVER	
	(Inches)	(mm)	(Inches)	(mm)
<b>NON-ABRASIVE MATERIALS - WOOD CHIPS, PULP, GRAIN, LOOSE CEMENT, POTASH ORE, OR VERY FINE COAL</b>	1/16 to 1/8	1.5 to 3.0	1/16	1.5
<b>MILDLY ABRASIVE MATERIALS - SHARP SAND, CLINKER, EARTH, BITUMINOUS COAL AND ROCK UNDER 3" SIZE.</b>	1/8 to 3/16	3.0 to 4.5	1/16	1.5
<b>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</b>	3/16 to 1/4	4.5 to 6.0	3/32	2.0
<b>HEAVY ABRASIVE MATERIALS - IRON, COPPER, ROCK ORES, ZINC, LEAD ORES, OR ROM COAL, LIMESTONE OR SLAG UNDER 9" SIZE.</b>	1/4 to 3/8	6.0 to 9.5	1/8	3.0
<b>HEAVY, SHARP ABRASIVE MATERIALS - TRAP ROCK, QUARTZ, HARD ORES, SLAG, GLASS CULLET. ANY HARD HEAVY SHARP ORE OVER 9" SIZE.</b>	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
<b>GENERAL PURPOSE</b>	.016	.032	.048	.064	.080	.096	.112	.128	.144	.160	.176	.192	.208	.224	.240	.256
<b>FIRE RESISTANT</b>	.018	.036	.054	.072	.090	.108	.126	.144	.162	.180	.198	.216	.234	.252	.270	.288
<b>OIL RESISTANT</b>	.017	.033	.050	.067	.084	.100	.117	.134	.150	.167	.184	.200	.217	.233	.250	.267
<b>FIRE &amp; OIL RESISTANT</b>	.018	.035	.053	.071	.088	.106	.124	.141	.159	.177	.195	.212	.230	.248	.266	.284
<b>HEAT RESISTANT</b>	.015	.030	.045	.059	.074	.089	.104	.119	.133	.148	.163	.178	.193	.208	.223	.238
<b>HEAT &amp; OIL RESISTANT</b>	.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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