

FLEX-LAG® DIAMOND CERAMIC

Pulley Lagging

The Reliable and Economical Solution for Belt Slippage

Flex-Lag® Diamond Ceramic Lagging has been developed to provide a ceramic lagging option for customers with medium tension belt drive applications and all other non-drive pulley lagging applications who want the added advantages of a ceramic product, at a more affordable cost.

Flex-Lag Diamond Ceramic Lagging is manufactured in the same pattern as the existing Flex-Lag Diamond Rubber Lagging. A large ceramic tile is molded into the diamond section of the lagging, providing an increased coefficient of friction. The diamond pattern drainage grooves allow for excellent dispersement of water and renegade materials.

The product is also suitable for existing rubber pulley lagging applications that experience higher than expected lagging wear.



The tiles in Diamond Ceramic Lagging are surrounded by multiple channels to disperse water and renegade materials allowing for improved water shedding capabilities.



Easier.

Flex-Lag Diamond Ceramic Lagging is available in both natural rubber and FRAS approved rubber in convenient 21 ft. (6.5M) cut-to-fit rolls with minimal waste. Simply determine the number of continuous-pattern strips needed to cover the pulley (see Strip Selection Guide) and apply. High waste factors encountered with conventional sheet materials are eliminated.

Flex-Lag Diamond Ceramic provides an economical option for increasing conveyor belt life and reducing pulley lagging wear.

Faster.

The in situ installation of Flex-Lag Diamond Ceramic Lagging eliminates the need to remove the pulley from the conveyor system.

Smarter.

How to determine the proper quantity of Flex-Lag® material for the application.

Step 1: Measure the diameter of your pulley.

Step 2: See Strip Selection Chart to determine the number of strips you will need to lay lengthwise across the pulley.

Step 3: Choose the material and pattern best suited to your application.

Step 4: Determine the number of rolls required to cover pulley face:

A. Determine Length of Strip
Pulley face plus 4" (100 mm)

B. Calculate Strips per Roll
 $252'' (6.5 \text{ M}) \div \text{length of strip}$

C. Number of Rolls Required
Number of strips required \div strips per roll



FLEX-LAG® DIAMOND CERAMIC Pulley Lagging

Flex-Lag Diamond Ceramic Lagging provides increased wear over standard rubber lagging and greater versatility in a variety of applications. The increased tile dimensions in Diamond Ceramic allow for a higher coefficient of friction and help keep belt slippage under control. At 40% less cost than full tile ceramic lagging, Flex-Lag Diamond Ceramic is an economical choice for increased pulley lagging life, improved water and renegade material shedding characteristics, as well as enhanced conveyor productivity.

Coefficients of Friction

Condition	Flex-Lag Grooved Rubber	Flex-Lag Diamond Ceramic	Flex-Lag Ceramic
Dry	0.4 to 0.5	0.46 to 0.56	0.74 to 0.83
Wet	0.23 to 0.26	0.28 to 0.36	0.48 to 0.78
Wet with Mud	0.18 to 0.22	0.23 to 0.27	0.42 to 0.51

Pressure on surface 3 kg/CM (2) V=0M/Min.

Note: A dry, bare steel or iron pulley has a coefficient of friction of approximately 0.25

Note: When specifying Diamond Ceramic for a drive application, care should be taken not to exceed relevant coefficient of friction ranges.

Strip Selection

Pulley Diameter		Strips Required	Pulley Diameter		Strips Required
in.	mm		in.	mm	
12.0 to 12.5	305 to 319	5	42.7 to 45.1	1083 to 1145	18
12.6 to 15.0	320 to 381	6	45.2 to 47.6	1146 to 1210	19
15.1 to 17.5	382 to 445	7	47.7 to 50.1	1212 to 1273	20
17.6 to 20.0	446 to 510	8	50.2 to 52.6	1275 to 1336	21
20.1 to 22.5	511 to 573	9	52.7 to 55.1	1339 to 1400	22
22.6 to 25.0	574 to 636	10	55.2 to 57.6	1403 to 1463	23
25.1 to 27.5	637 to 700	11	57.7 to 60.1	1466 to 1527	24
27.6 to 30.0	701 to 764	12	60.2 to 62.6	1529 to 1590	25
30.1 to 32.5	765 to 826	13	62.7 to 65.1	1593 to 1654	26
32.6 to 35.1	827 to 891	14	65.2 to 67.6	1656 to 1717	27
35.2 to 37.6	892 to 955	15	67.7 to 70.1	1720 to 1781	28
37.7 to 40.1	956 to 1018	16	70.2 to 72.7	1783 to 1847	29
40.2 to 42.6	1019 to 1082	17			

Ordering Information

Diamond Ceramic Lagging

Rubber Grade	Ordering Number	Item Code
Natural	71155	12NDC
FRAS	71159	12FRDC

* All material is 8 inches (200mm) wide in 21 foot (6.5M) rolls



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