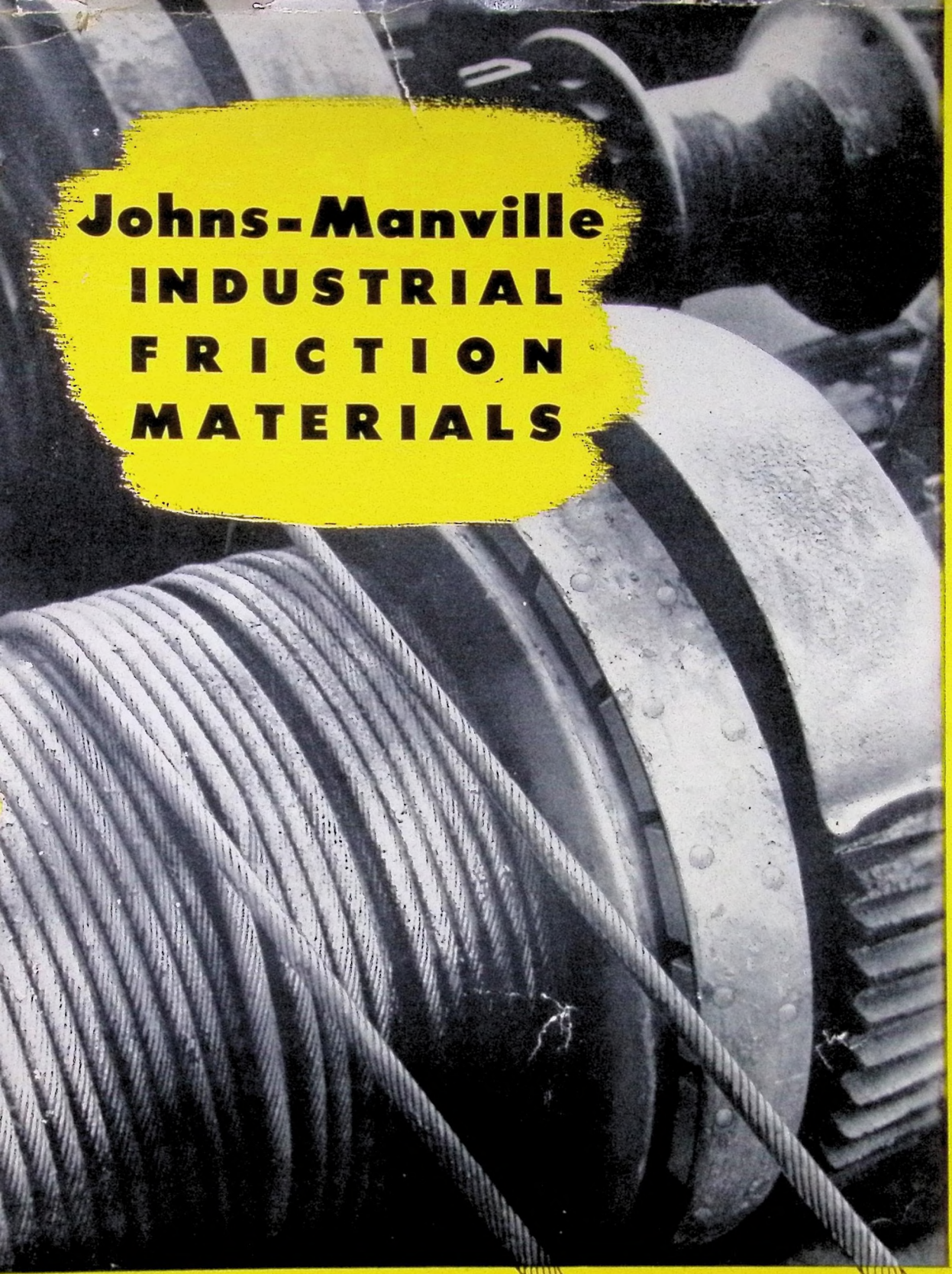


Johns-Manville INDUSTRIAL FRICTION MATERIALS

• THE OLDEST NAME IN INDUSTRIAL BRAKE LINING

BRAKE BLOCKS • LININGS • CLUTCH FACINGS

JOHNS-MANVILLE PRODUCTS

Published by AsbestosClaims.Law
asbestosclaims.law/library/14585/1



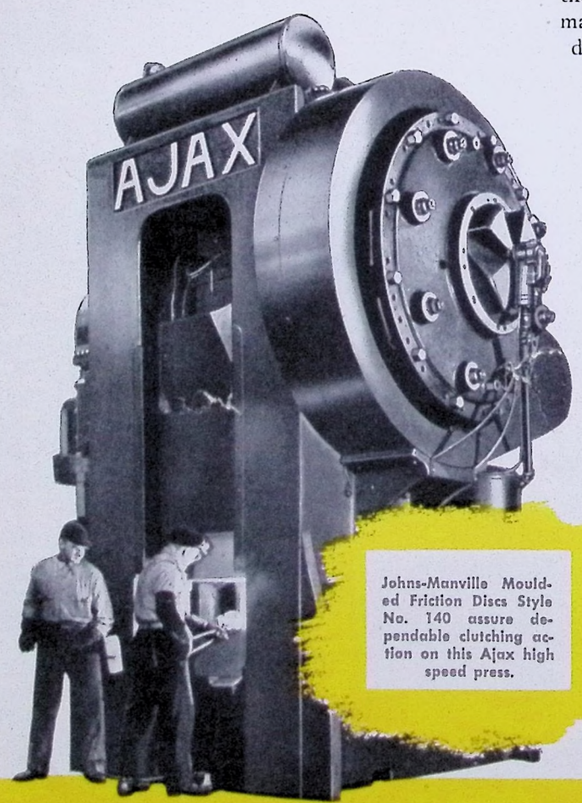
This P & H Model 255A Excavator, equipped with J-M Industrial Friction Materials, is manufactured by the Harnishfeger Corp.

Johns-Manvil
THE DEVELOPMEN
FRICTI

JUST about 60 years ago the H. W. Johns Co., predecessor of the present Johns-Manville, began tests to find a material which could withstand the terrific heat, strain and wear necessary to brake the whirling steel drum of a large hoist. To help solve this problem, H. W. Johns turned to asbestos, the magic mineral that would not burn. After many exhaustive experiments, a highly efficient and dependable brake lining was developed. This lining was the first successful high speed industrial friction material ever produced.

Industry's Demands Met

In the years that have followed, Johns-Manville has developed newer and more efficient friction materials to withstand the ever-increasing loads and greater speeds of modern machinery. These materials are designed to have extreme durability, to be mechanically strong and highly resistant to heat and shock. They combine maximum braking efficiency with long life and economical operation. On shovels, drag lines, hoists, winches, cranes, presses and on a variety of other industrial and marine



Johns-Manville Moulded Friction Discs Style No. 140 assure dependable clutching action on this Ajax high speed press.



To assure efficient, economical operation, this giant Heil Earthmover is supplied with J-M Style No. 200 Moulded Brake Lining.

1949
12

JOHNS-MANVILLE
JM
PRODUCTS

Johns-Manville
FRICTION MATERIALS
SELECTION CHART

This chart has been prepared to simplify the selection of Johns-Manville Friction Materials. It is an enlarged reproduction of the chart which appears in Johns-Manville Friction Materials brochure (Form No. FM-12A), and is intended to be used in conjunction with the supplementary charts in that brochure which list detailed specifications of the various styles of Friction Materials offered.

This enlarged chart has been prepared separately to show the basic characteristics and broad limits of J-M Materials at a glance. We believe that designers and users of equipment employing friction materials will find it useful.

Additional charts may be secured from the nearest Johns-Manville office listed on the back of this folder. Ask for the FM-12A Chart.

Published by AsbestosClaims.Law
asbestosclaims.law/library/14585/2

Johns-Manville FRICTION MATERIALS SELECTION CHART

JOHNS-MANVILLE JM PRODUCTS

STYLE NO.*			100	140	150	200	230	232	240	242	300	304	350	354	400	404	450	454	510	600	751	900
TYPE OF BRAKE OR CLUTCH Cast Iron or Steel Drums & Discs			DISC CONE BAND	DISC CONE BAND	DISC CONE BAND	DISC CONE BAND	DISC CONE BAND	CONE BAND	DISC CONE BAND	CONE BAND	BAND	BAND	DISC CONE	DISC CONE	BAND	BAND	DISC CONE	DISC CONE	BAND	DISC CONE BAND	DISC	DISC CONE BAND
TYPE OF SURFACE †Furnished standard with ground surface			† See Note 1			†	†	†	†	†			†	†			†	†	†	† Note 2	†	†
STRUCTURE R = Rigid Moulded SF = Semi-Flexible F = Flexible			R	R	R	R	R	SF	R	SF	F	F	SF	SF	SF	SF	SF	SF	F	SF	R	SF
COEFFICIENT OF FRICTION ‡Running in oil			0.25 ±.05	0.40 ±.07	0.45 ±.07	0.40 ±.07	0.45 ±.07	0.45 ±.07	0.40 ±.07	0.40 ±.07	0.40 ±.07	0.20‡ ±.07	0.35 ±.07	0.20‡ ±.07	0.45 ±.07	0.20‡ ±.07	0.45 ±.07	0.20‡ ±.07	0.45 ±.07	0.45 ±.07	0.35 ±.07	0.45 ±.07
SIZES	FACINGS	THICKNESS	Note 3			3/16" to 3/8"			3/16"-3/8"				1/8" to 5/16"				3/8"-1"	3/8"-1"		1/8"-1"	1/8"-1/2"	1/4"-3/8"
		MAX. DIAM.	35"	35"	35"	40"	16"		20"				TO 1/4" THK.—23" 5/16" THK.—15"				12"	12"		36"	36"	Note 4
	BAND OR BLOCKS	THICKNESS	3/8" to 3"			1/8" to 3/8"					1/8" to 5/16"				3/8"-1 1/8"	3/8"-1"			5/32"-1/2"	1/8"-1"		1/4"-1/2"
		WIDTH	1" to 24"			1" to 12"					" to 24"				2" to 12"				1"-12"	1"-24"		1 1/4"-12"
		MAX. LENGTH See Note 5	120° OF CIRC., BUT NOT OVER 24" LONG CHORD.—MAX. AREA 600 SQ. IN.			10'-6"	120°—NOT OVER 29" LONG ARC	10'-6"	120°—NOT OVER 29" LONG ARC	10'-6"	25 & 50 FT. ROLLS				1/2" THK. & LESS, 50 FT. OVER 1/2" THK., 30 FT.				25' & 50' ROLLS TO 3/8 x 6; OVER, 25' ROLLS	25' ROLLS, UNDER 1/2" THK. OR 8 1/2" WIDE, 25' & 50' ROLLS		6" WIDE & LESS, 25' & 50' ROLLS; OVER, 25' ROLLS
TYPE OF SERVICE			DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	OIL	DRY OIL	OIL	DRY	OIL	DRY OIL	OIL	DRY	DRY	DRY OIL	DRY
MAX. RUBBING SPEED FT/MIN			5000	7500	7500	5000	5000	5000	5000	5000	5000	5000	5000	3000	7500	5000	3000	3000	7500	3000	5000	5000
MAX. DRUM TEMP. °F FOR CONSTANT OPERATION			750	750	750	500	500	500	500	500	250	500	500	500	500	500	500	500	500	350	500	500
			For short periods of operation will withstand an additional 250° F																			
MAX. PRESSURE—P.s.i.			150	150	150	100	100	100	100	100	50	100	100	50	100	100	100	100	100	100	100	100
RESISTANCE TO SHOCK M = Medium E = Excellent G = Good			E	E	E	G	G	G	G	G	M	M	G	M	G	M	G	M	G	E	G	G
RATE OF WEAR M = Medium G = Good E = Excellent V = Variable, depending on amount of oil			E	E	E	M	E	M	E	M	M	V	G	V	G	V	G	V	G	E	G	E

*For performance characteristics of J-M Friction Materials for the oil industry, Styles No. 410, 420, and 430, ask for brochure FM-14A.

Note 1—Blocks over 14" wide cannot be ground on I.D.; Blocks 24" wide, less than 1/2" thick, cannot be ground, I. D. or O. D.

Note 2—Style 600 Lining is furnished unground over 18" wide.

Note 3—Full moulded to 1/2" thick and 35" O.D. Saw cut from slab over 1/2" thick to 2 1/2" and max. O.D. of 24".

Note 4—1/4" thick-24 diam. Max. over 1/4" thick to 3/8" thick-12" diam. Max.

Note 5—Standard length rolls are ±10% of nominal length.

Published by AsbestosClaims.Law
asbestosclaims.law/library/14585/3

JOHNS-MANVILLE
JM
PRODUCTS

Johns-Manville

Executive Offices: 22 East 40th Street, New York 16, N. Y.

SALES OFFICES

Akron
Albany
Atlanta
Baltimore
Birmingham
Boston
Buffalo
Charleston, W. Va.
Charlotte
Chicago
Cincinnati
Cleveland
Columbus
Dallas
Dayton
Denver
Detroit
Erie
Grand Rapids
Honolulu
Houston
Indianapolis
Jacksonville
Kansas City, Mo.
Knoxville
Los Angeles
Louisville
Milwaukee
Minneapolis
Newark
New Orleans
New York
Oakland
Omaha
Philadelphia
Pittsburgh
Portland, Me.
Portland, Ore.
Providence
Richmond
Rochester
Salt Lake City
San Antonio
San Francisco
Seattle
St. Louis
St. Paul
South Bend
Syracuse
Toledo
Tulsa
Washington, D. C.
Wheeling
Wilkes-Barre
Youngstown

CANADIAN JOHNS-MANVILLE CO., LIMITED

Montreal Toronto Vancouver Winnipeg

FM-12A CHART—1-47

LITHO IN U. S. A.

Published by AsbestosClaims.Law
asbestosclaims.law/library/14585/4