

MATERIAL SPECIFICATION - NM-7

Scope: This specification covers compressed asbestos sheet packing material similar to ASTM D-1170 #P1161A.

Materials: The packing shall consist of not less than 70% by weight of chrysotile asbestos fiber, not less than 10% by weight of rubber, natural and/or synthetic, sulphur and suitable mineral fillers.

Tolerances: Packing under this specification shall be of uniform thickness with a variation of:

- + .005) 1/64 & under
- .002)
- ± .005 - over 1/64 and under 1/16
- ± .008 - 1/16 and under 3/32
- ± 10% - 3/32 and over

Physical Requirements:

- (1) The packing shall be capable of withstanding temperatures up to 750°F.
- (2) The tensile strength of material 1/32" and thicker shall be 3500 Psi minimum average of longitudinal and transverse directions. Single ply sheets 1/64" thick shall have a minimum strength of 1200 Psi in the weakest direction and an average tensile strength of both longitudinal and transverse directions of not less than 2000 Psi as determined by ASTM D733.
- (3) Compressability and recovery shall be tested as per ASTM D1147. Under a load of 5000 Psi the compressability shall be 7 to 17% and the recovery 40% minimum.

Rejection: Failure to conform to this specification shall constitute reason for rejection.

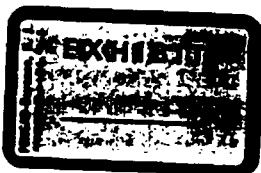
Chemical Analysis: Two specimens shall be tested for the percent of asbestos fiber, percent of rubber cement and percent of chemically combined water.

<u>Basic</u>	<u>Material</u>	<u>Process</u>	<u>Form & Condition</u>
<u>Code No.</u>	<u>Specification</u>	<u>Specification</u>	
0906 D	NM-7	As received	Asbestos Sheet

NOTE: Use page 1 only for Purchasing.

TX0094

D - Test report not required to be furnished.



Handwritten: 4-10-88
9/19/88

	Supersedes issue dated 7/24/70	10/2/78	HG	<i>[Signature]</i>	TITLE NM-7	
						TRENTON, N.J. 08602
						SHEET NO. 1 OF 2
CHG	ALTERATIONS	DATE	BY	CHK		Code 0906

MATERIAL SPECIFICATION - NM-7

Approved Brand Names & Sources

Ankorite #425	The Anchor Packing Company Philadelphia, Pa.
Raybestos-Manhattan #663	Raybestos-Manhattan, Inc. Bridgeport, Conn.
Durabla	Durabla Manufacturing Company 114 Liberty Street New York, New York
Johns-Manville #60	Johns Manville Company Chestnut at Fourth Street Philadelphia, Penna.
Garlock #7735	The Garlock Packing Company 20 South 15th Street Philadelphia, Penna.
Melrath #125	Melrath Gasket 30th & Hunting Park Avenue P.O.Box 9830 Philadelphia, Penna. 19140

Approved Brand Names & Sources: (In accordance with MIL-A-7021A)

Garlock #7735	The Garlock Packing Company 20 South 15th Street Philadelphia, Penna.
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TX0095

DELAVAL	TITLE		Supersedes Issue	10/2/78	HG	
TRENTON, N.J. 08602	NM-7		dated 7/24/70			
SHEET NO. 2 OF 2						
Code 0906		CHG	ALTERATIONS	DATE	BY	CHK

Material Specification - NM-7

Scope: This specification covers compressed asbestos sheet packing material similar to ASTM D-1170 #P1161A.

Materials: The packing shall consist of not less than 70% by weight of chrysotile asbestos fiber, not less than 10% by weight of rubber, natural and/or synthetic, sulphur and suitable mineral fillers.

Tolerances: Packing under this specification shall be of uniform thickness with a variation of:

+ .005)
- .002) 1/64" & under
± .005 - over 1/64" and under 1/16
± .008 - 1/16 and under 3/32
± 10% - 3/32 and over

Physical Requirements:

- (1) The packing shall be capable of withstanding temperatures up to 750 F.
- (2) The tensile strength of material 1/32" and thicker shall be 3500 psi minimum average of longitudinal and transverse directions. Single ply sheets 1/64" thick shall have a minimum strength of 1200 psi in the weakest direction and an average tensile strength of both longitudinal and transverse directions of not less than 2000 psi as determined by ASTM D733.
- (3) Compressability and recovery shall be tested as per ASTM D1147. Under a load of 5,000 psi the compressability shall be 7 to 17% and the recovery 40% minimum.

Rejection: Failure to conform to this specification shall constitute reason for rejection.

Chemical Analysis: Two specimens shall be tested for the percent of asbestos fiber, percent of rubber cement and percent of chemically combined water.

Basic Code No. 0906	Material Specification NM-7	Process Specification As Received	Form and Condition Asbestos Sheet
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NOTE: Use page 1 only for purchasing.

TX0096

11/8/63		Supersedes same dated 9/1/63		NM-7	Page 1 of 2
DATE	CR. BY	APP'D.	ALTERATIONS		
DE LAVAL TURBINE INC.				Code 0906	
TRENTON 2 NEW JERSEY U.S.A.					

Material Specification - NM-7

Approved Brand Names and Sources: (In accordance with MIL-A-17472)

Ankorite #425	The Anchor Packing Co. Philadelphia, Pa.
Raybestos-Manhattan #663	Raybestos-Manhattan, Inc. Bridgeport, Conn.
Durabla	Durabla Manufacturing Co. 114 Liberty Street New York 6, New York
Johns-Manville #60	Johns Manville Co. Chestnut at Fourth St. Philadelphia 6, Pa.
Garlock #7735	The Garlock Packing Co. 20 South 15th St. Philadelphia 2, Pa.

Approved Brand Names and Sources: (In accordance with MIL-A-7021A)

Garlock #7735	The Garlock Packing Co. 20 South 15th St. Philadelphia 2, Pa.
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Supersedes page 2		Page 2	
Dated 9/4/63		of 2	
11/8/63	<i>[Signature]</i>		
DATE	CK. BY	APPD.	ALTERATIONS
DE LAVAL TURBINE INC.		Code 0906	
TRENTON 3 NEW JERSEY U.S.A.			

Material Specification - NM-7

Scope: This specification covers compressed asbestos sheet packing material similar to ASTM D-1170 #P1161A.

Materials: The packing shall consist of not less than 70% by weight of chrysotile asbestos fiber, not less than 10% by weight of rubber, natural and/or synthetic, sulphur and suitable mineral fillers.

Tolerances: Packing under this specification shall be of uniform thickness with a variation of:

+ .005) 1/64 & under
- .002)
± .005 - over 1/64 and under 1/16
± .008 - 1/16 and over

Physical Requirements:

- (1) The packing shall be capable of withstanding temperatures up to 750 F.
- (2) The tensile strength shall be 3,500 psi minimum for sheets 1/32" and thicker. Single ply sheets 1/64" thick shall have a minimum strength of 1200 psi in the weakest direction and an average tensile strength of both longitudinal and transverse directions of not less than 2000 psi as determined by ASTM D733.

- (3) Compressability and recovery shall be tested as per ASTM D1147. Under a load of 5,000 psi the compressability shall be 7 to 17% and the recovery 40% minimum.

Rejection: Failure to conform to this specification shall constitute reason for rejection.

Chemical Analysis: Two specimens shall be tested for the percent of asbestos fiber, percent of rubber cement and percent of chemically combined water.

Basic
Code No.
0906

Material
Specification
NM-7

Process
Specification
As received

Form and Condition
Asbestos Sheet

TX0098

NOTE: Use page 1 only for purchasing.

9/4/63		DATE		CK. BY	APPD.	ALTERATIONS	Supersedes page 1 Dated 9/15/58	NM-7	Page 1 of 2
							DE LAVAL TURBINE INC. TRENTON 2, NEW JERSEY, U. S. A.		Code 0906

Material Specification - NM-7

Approved Brand Names and Sources: (In accordance with MIL-A-17472)

Ankorite #425	The Anchor Packing Co. Philadelphia, Pa.
Raybestos-Manhattan #663	Raybestos-Manhattan, Inc. Bridgeport, Conn.
Durable	Durable Manufacturing Co. 114 Liberty Street New York 6, New York
Johns-Manville #60	Johns Manville Co. Chestnut at Fourth St. Philadelphia 6, Pa.
Carlock #7735	The Carlock Packing Co. 20 South 15th St. Philadelphia 2, Pa.

Approved Brand Names and Sources: (In accordance with MIL-A-7021A)

Carlock #7735	The Carlock Packing Co. 20 South 15th St. Philadelphia 2, Pa.
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TX0099

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		Dated 9/15/58				of	
9/4/63							2
DATE	CK. BY	APPD.	ALTERATIONS		DE LAVAL TURBINE INC.		Code 0906
TRENTON 2, NEW JERSEY U.S.A.							

Material Specification - NM-7

Scope: This specification covers compressed asbestos sheet packing material similar to ASTM D-1170 #G-1111-1.

Materials: The packing shall consist of not less than 70% by weight of chrysotile asbestos fiber, not less than 10% by weight of rubber, natural and/or synthetic, sulphur and suitable mineral fillers.

Tolerances: Packing under this specification shall be of uniform thickness with a variation of plus or minus .002 for thicknesses up to 1/32".

Physical Requirements:

- (1) The packing shall be capable of withstanding temperatures up to 750 F.
- (2) The tensile strength shall be 3,500 psi minimum for sheets 1/32" and thicker. Single ply sheets 1/64" thick shall have a minimum strength of 1200 psi in the weakest direction and an average tensile strength of both longitudinal and transverse directions of not less than 2000 psi as determined by ASTM D733.
- (3) Compressibility and recovery shall be tested as per ASTM D1147. Under a load of 5,000 psi the compressibility shall be 12-20% and the recovery 40% minimum.

Rejection: Failure to conform to this specification shall constitute reason for rejection.

Basic
Code No.
0906

Material
Specification
NM-7

Process
Specification
As Received

Form and Condition
Asbestos Sheet

TX0100

NOTE: Use page 1 only for Purchasing.

9/15/78		APPROVED		NM-7		Code 0906	Page 1 of 2
DATE	CK. BY	APP'D.	ALTERATIONS	DE LAVAL TURBINE INC. TRENTON 2 NEW JERSEY U.S.A.		DE 12-911	

Material Specification - NM-7

Approved Brand Names and Sources:

Ankorite #425	The Anchor Packing Co. Philadelphia, Pa.
Raybestos-Manhattan #663	Raybestos-Manhattan, Inc. Bridgeport, Conn.
Durable	Durable Manufacturing Co. 114 Liberty Street New York 6, New York
John Crane #2150	Crane Packing Co. 5 East Montgomery Ave. Bala-Cynwyd, Pa.
Johns-Manville #60	Johns Manville Co. Chestnut at Fourth St. Phila. 6, Pa.
Melrath #150	Melrath Supply & Gasket Co. Tioga & Aramingo Ave. Phila. 34, Pa.
Garlock #7735	The Garlock Packing Co. 20 South 15th St. Phila. 2, Pa.

NM-7 is a compressed asbestos sheet packing material that will meet ASTM D-1170 #G-1111-1 and MIL-A-17472.

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9/25/58	AK	ML		DE LAVAL TURBINE INC. TRENTON 2, NEW JERSEY	DE 12-911	
DATE	CK BY	APPD.	ALTERATIONS			