Chrysotile Asbestos Fiber
Chrysotile Material Safety Data Sheet

I JOHNS-MANVILLE CORP. & SUBSIDIARIES

P.O. Box 5108, Denver, Colo. 80217

Emergency Telephone No: 303-979-1000

Chemical Name & Synonyms: Chrysotile Asbestos
Trade Name & Synonyms: Asbestos
Chemical Family: Fibrous Mineral Silicates
Formula: $Mg_3 (Si_2O_5) (OH)_4$

II HAZARDOUS INGREDIENTS

		TLV (Units)
Paints, Preservatives & Solvents		
Pigments, Catalyst, Vehicle, Solvents, Additives and Others		N/A
Alloys and Metallic Coatings		
Base Metal, Alloys, Metallic Coatings, Filler Metal plus Coating or Core Flux, Others		N/A
Hazardous Mixtures of Other Liquids, Solids or Gases		
Chrysotile Asbestos Fiber	Approx. 100%	*

(*For TLV—See Section V)

III PHYSICAL DATA

Boiling Point (°F.), Vapor Pressure (mm Hg.)	N/A
Vapor Density (Air=1), Solubility in Water	N/A
Appearance and Odor: White Fibrous dry material—no odor	
Specific Gravity (H_2O=1)	2.4-2.6
Percent volatile by volume (%)	N/A
Evaporation rate (_____=1)	N/A

IV FIRE AND EXPLOSION HAZARD DATA

Material is non-flammable. No fire or explosion hazard.

V HEALTH HAZARD DATA

Threshold Limit Value

OSHA Exposure Limits Effective July 1, 1976. The 8-hour time-weighted average airborne concentrations of asbestos fibers to which any employee may be exposed shall not exceed two fibers, longer than 5 micrometers, per cubic centimeter of air.

Ceiling Concentrations. No employee shall be exposed at any time to airborne concentrations of asbestos fibers in excess of 10 fibers, longer than 5 micrometers, per cubic centimeter of air.

[Refer to OSHA Standard for Exposure to Asbestos Dust, 29 CFR 1910. 1001 paragraphs (b)(2) and (b)(3).]

Emergency and First Aid Procedures

Avoid breathing excessive dust when handling, dumping and mixing. See caution label on bag.

VI REACTIVITY DATA

Stability	Stable
Incompatability (materials to avoid)	N/A
Hazardous Decomposition Products	None
Hazardous Polymerization	Will not occur

VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Vacuum clean spillage. Repair broken bags. If sweeping is necessary, wet down spillage. Use approved respiratory equipment when required.

Waste Disposal Method

Disposal of waste in accordance with OSHA Standard for Exposure to Asbestos Dust, 29 CFR 1910. 1001 and EPA National Emission Standards for Hazardous Air Pollutants 40 CFR 61.

VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection

Use respirators as recommended by the OSHA Standard for Exposure to Asbestos Dust, 29 CFR 1910. 1001 paragraph (d).

Ventilation

Control with mechanical dust collection equipment to within TLV. (See American National Standards Institute booklet, Z9.2—1971).

Other Protective Equipment

Use special clothing as required by the OSHA Standard for Exposure to Asbestos Dust, 29 CFR 1910. 1001 paragraph (d).

IX SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing

Maintain good housekeeping practices. Vacuum clean waste and place in closed containers.

Other precautions

CAUTION LABEL ON BAG: Contains Asbestos Fibers—Avoid Creating Dust—Breathing Asbestos Dust May Cause Serious Bodily Harm.

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, JOHNS-MANVILLE MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

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Chrysotile Asbestos Fiber Material Safety Data Sheet

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Emergency Telephone No: 303-770-1000

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Trade Name & Synonyms: Asbestos
Chemical Family: Fibrous Mineral Silicates
Formula: $Mg_3 (Si_2O_5) (OH)_4$

II HAZARDOUS INGREDIENTS

		TLV (Units)
Paints, Preservatives & Solvents		
Pigments, Catalyst, Vehicle, Solvents, Additives and Others		N/A
Alloys and Metallic Coatings		
Base Metal, Alloys, Metallic Coatings, Filler Metal plus Coating or Core Flux, Others		N/A
Hazardous Mixtures of Other Liquids, Solids or Gases		
Chrysotile Asbestos Fiber	Approx. 100%	*

(* For TLV—See Section V)

III PHYSICAL DATA

Boiling Point (°F.), Vapor Pressure (mm Hg.)	N/A
Vapor Density (Air=1), Solubility in Water	N/A
Appearance and Odor: White Fibrous dry material—no odor	
Specific Gravity (H_2O=1)	2.4-2.6
Percent volatile by volume (%)	N/A
Evaporation rate (_____=1)	N/A

IV FIRE AND EXPLOSION HAZARD DATA

Material is non-flammable. No fire or explosion hazard

V HEALTH HAZARD DATA

Threshold Limit Value

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Ceiling Concentrations. No employee shall be exposed at any time to airborne concentrations of asbestos fibers in excess of 10 fibers, longer than 5 micrometers, per cubic centimeter of air. (Refer to OSHA Standard for Exposure to Asbestos Dust, Federal Register, Volume 37, No. 110—Wednesday, June 7, 1972, paragraph (h) (2).

Emergency and First Aid Procedures

Avoid breathing excessive dust when handling, dumping and mixing. See caution label on bag.

VI REACTIVITY DATA

Stability	Stable
Incompatability (materials to avoid)	N/A
Hazardous Decomposition Products	None
Hazardous Polymerization	Will not occur

VII SPILL OR LEAK PROCEDURES

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Chrysotile Asbestos Fiber Data Sheet

ASBESTOS FIBER GRADE 7D

QUEBEC STANDARD TEST (Guaranteed Minimum)	0 – 0 – 5 – 11	
GRADE DESIGNATIONS	**7D15**	**7D04**
ROTAP SCREEN ANALYSIS (100 grams—10 mins.)		
Plus 6 mesh (%)	Trace	0.5
Plus 10 mesh	7	12
Plus 14 mesh	17	14
Plus 20 mesh	25	20
Plus 35 mesh	28	33
Plus 65 mesh	6	6
Minus 65 mesh	17	14
WET CLASSIFICATION BAUER MCNETT TEST		
Cum. Plus 14 mesh (%)	10	6
Minus 200 mesh	72	69
PENETRATION EFFICIENCY (%)	98	128
COLOR	57	60

All test procedures are as approved by the Quebec Asbestos Mining Association.

The physical (or chemical) properties of Johns-Manville Chrysotile Asbestos Fiber represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check the Johns-Manville district office to assure current information.

CAUTION
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ctile Data Sheet

ASBESTOS FIBER GRADE 6D

ANDARD TEST eed Minimum)			0 – 0 – 7 – 9		
.SIGNATIONS	**6D30**	**6D20**	**6D16**	**6D12**	**6D04**
CREEN ANALYSIS grams—10 mins.)					
6 mesh (%)	3	2	0	1	1
10 mesh	24	17	10	16	18
14 mesh	15	13	19	17	16
20 mesh	16	16	27	19	19
35 mesh	20	23	26	27	26
65 mesh	6	7	4	5	5
us 65 mesh	16	22	14	16	15
:ACE AREA (cm^2/gm) (Dyckerhoff System)	10,000	10,300	9,400	12,800	13,500
ſ CLASSIFICATION **JER MCNETT TEST**					
Cum. Plus 14 mesh (%)	18	12	9	12	7
Minus 200 mesh	50	67	64	69	69
RUDY CONTENT (%)	8	6	11	3	1

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Chrysotile Asbestos Fiber Chrysotile Data Sheet

ASBESTOS FIBER GRADE 5R

QUEBEC STANDARD TEST (Guaranteed Minimum)	0 – 0 – 10 – 6			
GRADE DESIGNATIONS	**5R28**	**5R21**	**5R12**	**5R04**
ROTAP SCREEN ANALYSIS (50 grams—10 mins.)				
Plus 4 mesh (%)	0.5	0.5	0.5	0.5
Plus 6 mesh	2	2	1	3
Plus 10 mesh	30	25	24	27
Plus 20 mesh	32	34	36	33
Plus 35 mesh	19	19	20	18
Plus 65 mesh	5	5	5	5
Minus 65 mesh	11	14	13	14
SURFACE AREA (cm^2/gm) (Dyckerhoff System)	10,000	11,000	12,500	13,500
WET CLASSIFICATION BAUER MCNETT TEST				
Cum. Plus 14 mesh (%)	24	17	8	11
Minus 200 mesh	46	60	63	63
CRUDY CONTENT (%)	9	8	2	1

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Chrysotile Asbestos Fiber Chrysotile Data Sheet

ASBESTOS FIBER GRADE 5K

QUEBEC STANDARD TEST (Guaranteed Minimum)	0 – 0 – 12 – 4	
GRADE DESIGNATIONS	**5K04**	**5K02**
ROTAP SCREEN ANALYSIS (50 grams—10 mins.)		
Plus 4 mesh (%)	0.5	0
Plus 6 mesh	5	0.5
Plus 10 mesh	37	34
Plus 20 mesh	31	44
Plus 35 mesh	14	14
Plus 65 mesh	3	2
Minus 65 mesh	10	6
SURFACE AREA (cm^2/gm) (Dyckerhoff System)	14,000	22,500
WET CLASSIFICATION BAUER MCNETT TEST		
Cum. Plus 14 mesh (%)	13	8
Minus 200 mesh	60	57
CRUDY CONTENT (%)	1	Trace

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Chrysotile Asbestos Fiber Data Sheet

ASBESTOS FIBER GRADE 4T

QUEBEC STANDARD TEST (Guaranteed Minimum)	0 – 2 – 10 – 4		
GRADE DESIGNATIONS	**4T30**	**4T12**	**4T04**
ROTAP SCREEN ANALYSIS (50 grams—10 mins.)			
Plus 3 mesh (%)	0.5	Trace	Trace
Plus 4 mesh	3	2	2
Plus 6 mesh	14	12	16
Plus 10 mesh	33	38.	37
Plus 20 mesh	24	24	24
Plus 35 mesh	17	12	10
Minus 35 mesh	9	12	11
SURFACE AREA (cm^2/gm) (Dyckerhoff System)	9,000	11,500	13,500
WET CLASSIFICATION BAUER MCNETT TEST			
Cum. Plus 14 mesh (%)	38	25	20
Minus 200 mesh	33	46	51
CRUDY CONTENT (%)	13	4	1

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Chrysotile Asbestos Fiber Chrysotile Data Sheet

ASBESTOS FIBER GRADE 4K

QUEBEC STANDARD TEST (Guaranteed Minimum)	0 – 4 – 9 – 3	
GRADE DESIGNATIONS	**4K12**	**4K04**
ROTAP SCREEN ANALYSIS (50 grams—10 mins.)		
Plus 3 mesh (%)	1	0.5
Plus 4 mesh	7	4
Plus 6 mesh	18	21
Plus 10 mesh	37	37
Plus 20 mesh	20	20
Plus 35 mesh	10	8
Minus 35 mesh	7	9
SURFACE AREA (cm^2/gm) (Dyckerhoff System)	11,500	13,000
WET CLASSIFICATION BAUER MCNETT TEST		
Cum. Plus 14 mesh (%)	32	25
Minus 200 mesh	38	45
CRUDY CONTENT (%)	5	2

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ASBESTOS FIBER GRADE 3T

QUEBEC STANDARD TEST (Guaranteed Minimum)	2 – 8 – 4 – 2
GRADE DESIGNATION	**3T12**
SURFACE AREA (cm^2/gm) (Dyckerhoff System)	11,000

WET CLASSIFICATION
BAUER MCNETT TEST

Cum. Plus 14 mesh (%)	54
Minus 200 mesh	27

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Chrysotile Asbestos Fiber Data Sheet

ASBESTOS FIBER GRADE 7F

QUEBEC STANDARD TEST (Guaranteed Minimum)	0 – 0 – 4 – 12	
GRADE DESIGNATIONS	**7F19**	**7F04**
ROTAP SCREEN ANALYSIS (100 grams—30 mins.)		
Plus 6 mesh (%)	0	0.5
Plus 14 mesh	9	12
Plus 20 mesh	16	14
Plus 28 mesh	20	19
Plus 35 mesh	15	21
Plus 65 mesh	14	13
Minus 65 mesh	26	20
WET CLASSIFICATION BAUER MCNETT TEST		
Plus 14 mesh (%)	7	3
Minus 200 mesh	69	73
PENETRATION EFFICIENCY (%)	96	133
COLOR	57	60

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ASBESTOS FIBER GRADE 7M

:BEC STANDARD TEST (Guaranteed Minimum)	0 – 0 – 1 – 15				
:ADE DESIGNATIONS	**7M15**	**7M13**	**7M06**	**7MF5**	**7MS7**
OTAP SCREEN ANALYSIS (100 grams—30 mins.)					
Plus 6 mesh (%)	0	0	0	0	0
Plus 14 mesh	3	3	2	2	2
Plus 20 mesh	7	7	7	9	5
Plus 28 mesh	12	11	20	27	28
Plus 35 mesh	21	13	18	21	26
Plus 65 mesh	30	17	14	14	19
Minus 65 mesh	27	49	39	27	20
WET CLASSIFICATION BAUER MCNETT TEST					
Plus 14 mesh (%)	4	7	2	2	1
Minus 200 mesh	84	64	69	73	77
PENETRATION EFFICIENCY (%)	76	67	101	123	126
COLOR	56	54	57	59	59

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Chrysotile Asbestos Fiber Data Sheet

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ASBESTOS FIBER GRADE 7K

QUEBEC STANDARD TEST (Guaranteed Minimum)	0 – 0 – 2 – 14	
GRADE DESIGNATIONS	**7K15**	**7K06**
ROTAP SCREEN ANALYSIS (100 grams—30 mins.)		
Plus 6 mesh (%)	0	0
Plus 14 mesh	8	3
Plus 20 mesh	7	12
Plus 28 mesh	11	24
Plus 35 mesh	17	16
Plus 65 mesh	28	10
Minus 65 mesh	29	35
WET CLASSIFICATION BAUER MCNETT TEST		
Plus 14 mesh (%)	3	3
Minus 200 mesh	83	61
PENETRATION EFFICIENCY (%)	81	106
COLOR	57	58

All test procedures are as approved by the Quebec Asbestos Mining Association.

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ASBESTOS FIBER GRADE 7H

QUEBEC STANDARD TEST (Guaranteed Minimum)	0 – 0 – 3 – 13

GRADE DESIGNATIONS (100 grams—30 mins.)	**7H19**
Plus 6 mesh (%)	0
Plus 14 mesh	7
Plus 20 mesh	14
Plus 28 mesh	20
Plus 35 mesh	16
Plus 65 mesh	16
Minus 65 mesh	27

WET CLASSIFICATION BAUER MCNETT TEST	
Plus 14 mesh (%)	6
Minus 200 mesh	70

PENETRATION EFFICIENCY (%)	90
COLOR	57

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ASBESTOS FIBER GRADE 7T

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QUEBEC STANDARD TEST (Guaranteed Minimum)	0 – 0 – 0 – 16	
GRADE DESIGNATIONS	**7T15**	**7T06**
ROTAP SCREEN ANALYSIS (100 grams—30 mins.)		
Plus 6 mesh (%)	0	0
Plus 14 mesh	Trace	1
Plus 20 mesh	0.5	5
Plus 28 mesh	2	16
Plus 35 mesh	6	21
Plus 65 mesh	40	19
Minus 65 mesh	52	38
WET CLASSIFICATION BAUER MCNETT TEST		
Plus 14 mesh (%)	0.5	1
Minus 200 mesh	90	74
PENETRATION EFFICIENCY (%)	58	96
COLOR	54	58

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Chrysotile Asbestos Fiber Data Sheet

ASBESTOS FIBER GRADE 7R

QUEBEC STANDARD TEST (Guaranteed Minimum)	0 – 0 – 0 – 16		
GRADE DESIGNATIONS	**7R66**	**7R15**	**7R06**
ROTAP SCREEN ANALYSIS (100 grams—30 mins.)			
Plus 6 mesh (%)	0	0	0
Plus 14 mesh	1	0.5	1
Plus 20 mesh	3	2	4
Plus 28 mesh	21	5	20
Plus 35 mesh	27	17	20
Plus 65 mesh	20	45	17
Minus 65 mesh	28	31	38
WET CLASSIFICATION BAUER MCNETT TEST			
Plus 14 mesh (%)	0.5	0.5	1
Minus 200 mesh	78	91	74
PENETRATION EFFICIENCY (%)	106	67	100
COLOR	59	55	57

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	ASBESTOS FIBER GRADE 25	CHLORBESTOS SP25
GRADE DESIGNATION	25	SP25
McNett (%)		
Plus 4 mesh	27	33
Cum. Plus 14 mesh	41	43
Minus 200 mesh	29	31
Freeness (secs.)	90	25
Surface Area (cm^2/gm)	11,000	10,600

All test procedures are as approved by the Quebec Asbestos Mining Association.

The physical (or chemical) properties of Johns-Manville Chrysotile Asbestos Fiber represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check the Johns-Manville district office to assure current information.

CAUTION
Contains Asbestos Fibers — Avoid Creating Dust — Breathing Asbestos Dust May Cause Serious Bodily Harm

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Canadian Johns-Manville Co., Ltd. • Asbestos Fiber Division • P O. Box 1500 • Asbestos, Quebec, Canada J1T 3N2 (819) 879-5433

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Chrysotile Asbestos Fiber Data Sheet

ASBESTOS FIBER GRADE **7TF**

GRADE DESIGNATIONS	7TF1	7TF02
ROTAP SCREEN ANALYSIS (100 grams—30 mins.)		
Plus 6 mesh (%)	0	0
Plus 14 mesh	0	0
Plus 20 mesh	0	Trace
Plus 28 mesh	Trace	0.5
Plus 35 mesh	1	10
Plus 65 mesh	33	52
Minus 65 mesh	66	38
WET CLASSIFICATION BAUER MCNETT TEST		
Cum. Plus 100 mesh (%)	2	2
Minus 200 mesh	92	95
PENETRATION EFFICIENCY (%)	50	72
G. P. GRIT		
Plus 80 mesh (%)	0.06	0
COLOR	52	55

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Chrysotile Asbestos Fiber Data Sheet

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ASBESTOS FIBER GRADE 7RF

GRADE DESIGNATIONS	7RF3	7RF1	7RF02
ROTAP SCREEN ANALYSIS (100 grams—30 mins.)			
Plus 6 mesh (%)	0	0	0
Plus 14 mesh	0	0	0
Plus 20 mesh	Trace	Trace	Trace
Plus 28 mesh	0.1	2	5
Plus 35 mesh	2	24	48
Plus 65 mesh	34	32	34
Minus 65 mesh	64	42	13
WET CLASSIFICATION BAUER MCNETT TEST			
Cum. Plus 100 mesh (%)	3	3	3
Minus 200 mesh	92	92	93
PENETRATION EFFICIENCY (%)	50	77	107
G. P. GRIT			
Plus 80 mesh (%)	0.04	0.01	Trace
COLOR	52	52	57

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Chrysotile Asbestos Fiber Data Sheet

GRADE DESIGNATIONS	ASBESTOS FIBER GRADE No. 1*	No. 2	PAPERBESTOS No. 3	No. 5
ROTAP SCREEN ANALYSIS (100 grams—10 mins.)				
Plus 4 mesh (%)	0	—	—	—
Plus 6 mesh	0.5	Trace	2	0
Plus 10 mesh	34	15	14	7
Plus 14 mesh	—	28	18	20
Plus 20 mesh	44	27	24	32
Plus 35 mesh	14	21	32	30
Plus 65 mesh	2	2	3	3
Minus 65 mesh	6	7	7	8
SURFACE AREA (cm^2/gm) (Dyckerhoff System)	22,500	21,500	22,000	23,000
WET CLASSIFICATION BAUER MCNETT TEST				
Cum. Plus 14 mesh (%)	5	4	3	3
Minus 200 mesh	57	66	73	71
CRUDY CONTENT (%)	Trace	Trace	Trace	Trace
COLOR	71	68	68	68

* Rotap test run with 50 gram sample.

All test procedures are as approved by the Quebec Asbestos Mining Association.

The physical (or chemical) properties of Johns-Manville Chrysotile Asbestos Fiber represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check the Johns-Manville district office to assure current information.

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