

FILE NAME: John Crane (JC)

DATE: 1955

DOC#: JC001

DOCUMENT DESCRIPTION: Sales Catalogue

JOHN CRANE

TRADE MARK

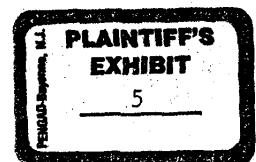
THE "JOHN CRANE" TRADEMARK IS REGISTERED
IN THE UNITED STATES AND IN THE PRINCIPAL
FOREIGN COUNTRIES THROUGHOUT THE WORLD

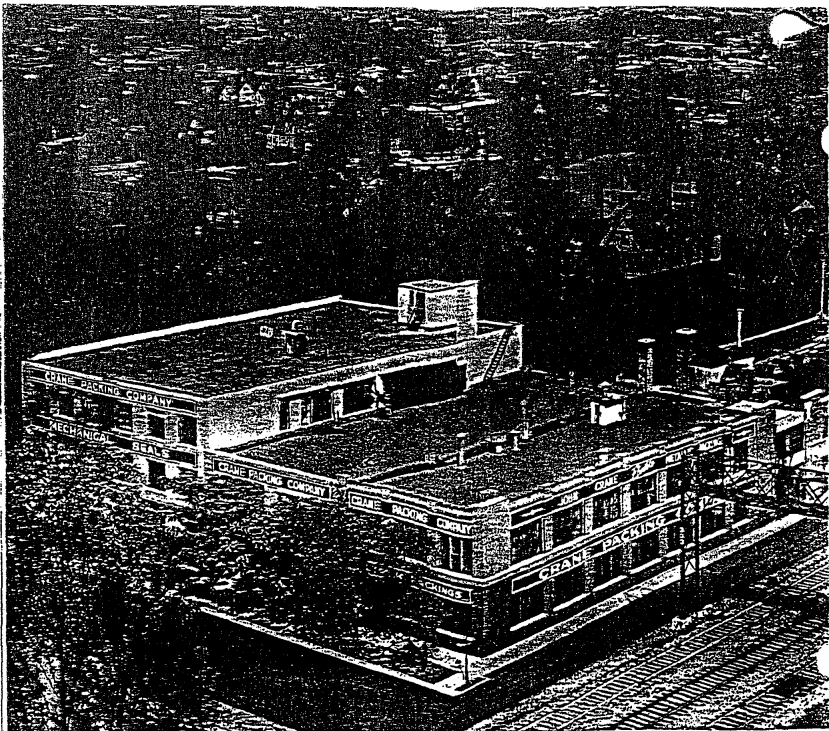
"JOHN CRANE" products are also sold
under the following registered trademarks

SUPER-SEAL

**JOHN CRANE CRANELITE
HYDRO FLAX**

Bellows
TEEPLITE

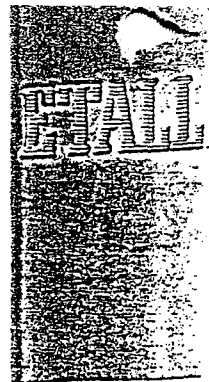




WARRANTY

THE Crane Packing Company guarantees that its products are free from defects in materials and workmanship, and that they are suitable for the purpose for which they are designed.

The Crane Packing Company will replace free of charge, including transportation charges, but not the cost of installation or other charges, any of its products that our investigation proves to be defective.



CATALOG 60-R-3

Copyright 1955

CRANE PACKING COMPANY

Printed in U. S. A.

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AMARILLO.
BATON ROUG
BEAUMONT,
BOSTON,
BUFFALO.
CHATTANOOC
CINCINNATI,
CLEVELAND,

B.
HO
JER

Portland.
COLUMBIA IN
MARINE SU

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MARINE SP

Norfolk,
J. HENRY HO

NEW YORK

TORON

ETALLIC, FABRIC and PLASTIC PACKINGS MECHANICAL SEALS

CRANE PACKING COMPANY 6400 Oakton Street, Morton Grove, Illinois

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I N T R O D U C T I O N

THE packing manufacturer's skill must keep pace with the progress in engineering and industry.

As engineering conditions of temperatures, pressures and speeds have become progressively more severe, the Crane Packing Company has always met the challenge by selecting or developing materials best adapted to the conditions and by skillful workmanship combined them into an efficient packing.

Well over a quarter of a century of manufacturing experience and the entire facilities of our well-organized Research Department are combined to produce not only packings to best meet the conditions of today but also the still more exacting services of tomorrow.

The packings illustrated in this catalog are those styles and types which meet the common demand for regular packing service. In addition to these, are many "John Crane" styles for unusual and special services, too numerous to list in this catalog.

Also shown in this catalog are various types of precision-built mechanical seals which have been developed for sealing rotating shafts. Each application of these seals is individually engineered and our Engineering Department has had thorough experience in this highly specialized field.

You are cordially invited to use the services of our experienced service engineers. Let them help you secure the proper sealing method for your requirements.

Sheet Packings



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ET PACKING
CHICAGO - PHILA.

and GASKETS

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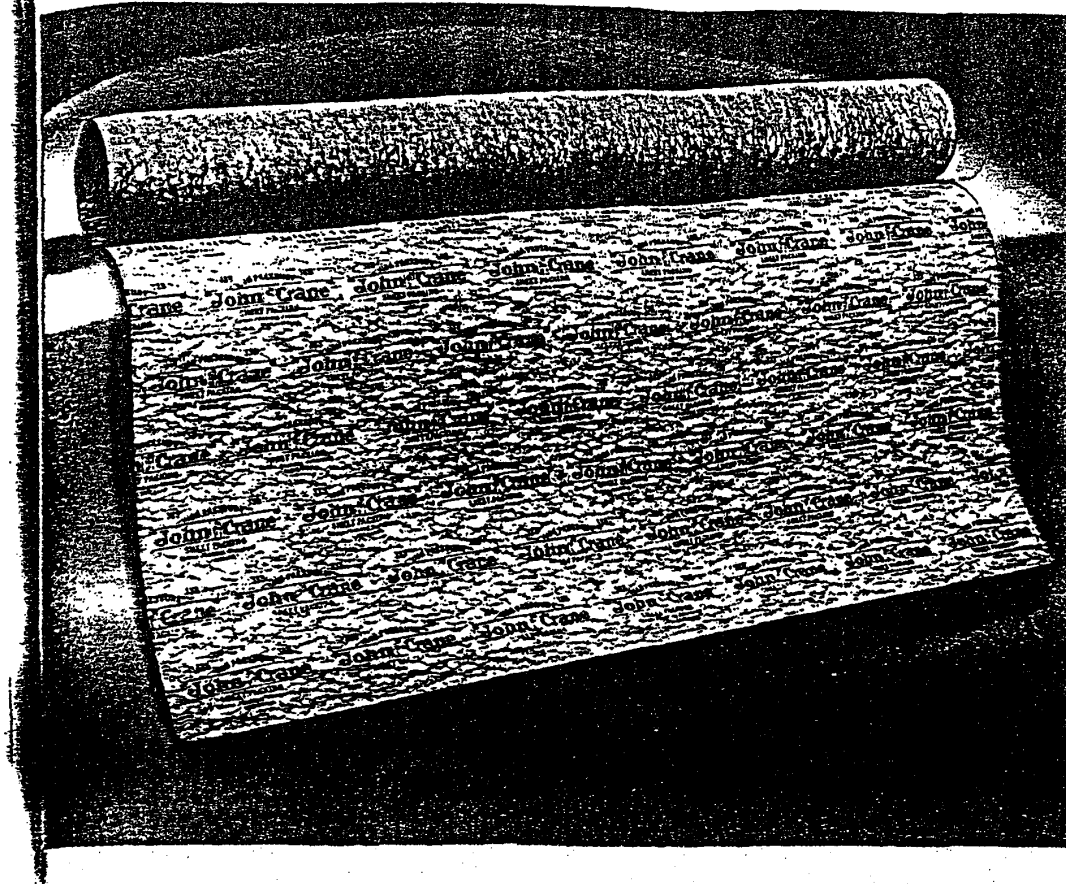


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long fibre
compound.
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STYLE 334



"JOHN CRANE" COMPRESSED ASBESTOS SHEET PACKING

"Triple-A" Super-heat Sheet

Style 333 Sheet

Style 334 Sheet (Graphited)

STYLE 333 Compressed Asbestos Sheet Packing is made of carefully selected Canadian long fibre asbestos blended with a superheat compound. It is compressed under extreme pressure, resulting in a homogeneous pliable sheet, possessing great tensile strength. It meets all government specifications.

STYLE 334 sheet can be obtained graphited

on one side or on both sides as required.

Gaskets cut from either "John Crane" Style 333 or Style 334 can be supplied in round, oval, odd, or special shapes.

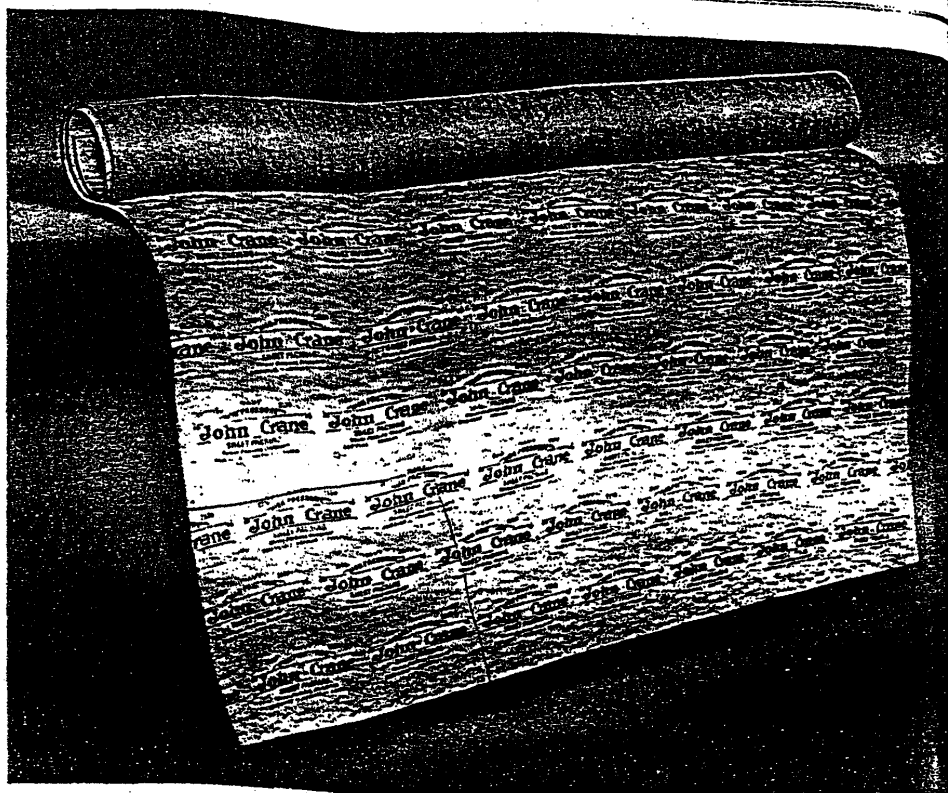
SERVICE—Recommended for use on superheated or saturated steam, air, gas, ammonia, brine, alkali and most chemical solutions.

Listed below are the sizes and thicknesses of standard sheets. Other sizes can be furnished.

STYLES 333 AND 334 (GRAPHITED) SHEET PACKING

Standard Thicknesses		Standard Sheet Sizes	Sizes Manufactured by Special Request	
$\frac{1}{16}$ "	$\frac{1}{8}$ "	50" x 50"	40" x 40"	40" x 120"
$\frac{3}{16}$ "	$\frac{1}{4}$ "		60" x 60"	60" x 120"
$\frac{1}{2}$ "	$\frac{3}{4}$ "		120" x 120"	

CRANE PACKING COMPANY



"JOHN CRANE" COMPRESSED ASBESTOS SHEET PACKING

Conforms to U.S. Government Specifications

Style 2150 Sheet

STYLE 2150 Compressed Asbestos Sheet Packing is made of Canadian asbestos fibre, blended with a heat resisting compound, pressed and cured under extreme pressure. This sheet is very pliable, tough and resilient.

STYLE 2151 Compressed Sheet can be supplied graphited on one side or on both sides as required.

Style 2151 Sheet (Graphited)

Gaskets cut from either "John Crane" Style 2150 or Style 2151 can be supplied in round, oval, octagonal or special shapes.

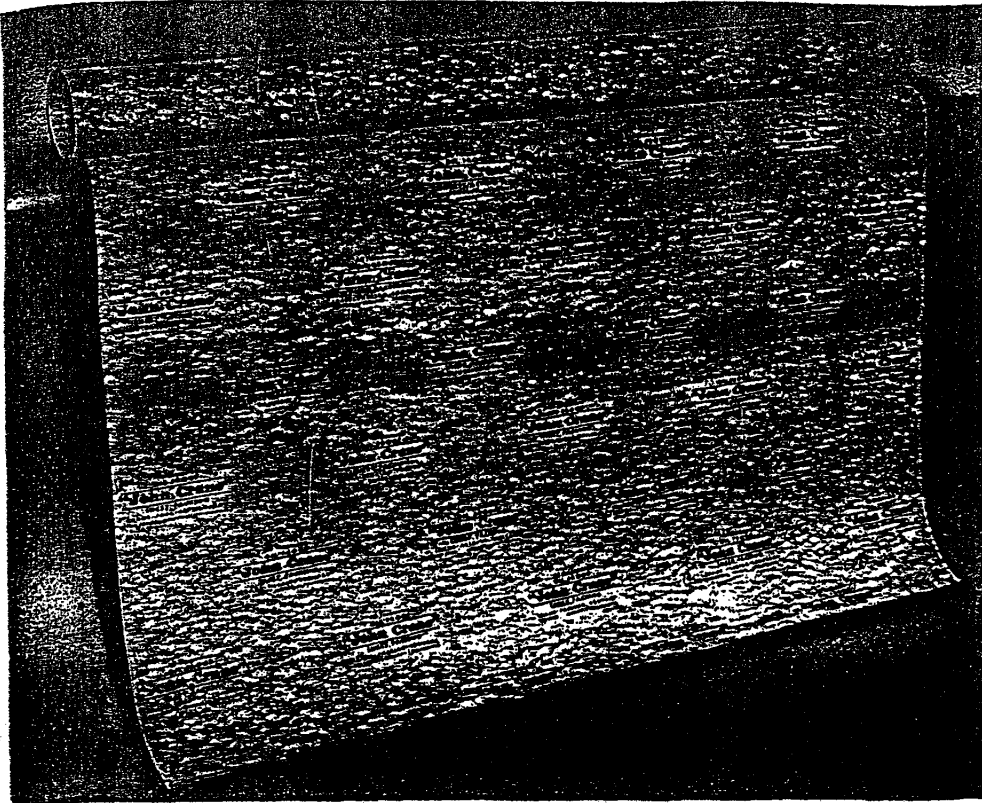
This sheet meets U. S. Government specification

SERVICE—Recommended for use on superheated and saturated steam, air, gas, ammonia, brine, alkali and many acids.

STYLE 888 Packing is Canadian asbestos sheet, tough and resilient under extreme pressure, high tensile strength.

Listed below are the sizes and thicknesses of standard sheets. Other sizes can be furnished.

STYLES 2150 AND 2151 (GRAPHITED) SHEET PACKING			
Standard Thicknesses		Standard Sheet Sizes	Sizes Manufactured by Special Request
$\frac{1}{16}$ "	$\frac{1}{8}$ "	50" x 50"	40" x 40"
$\frac{1}{8}$ "	$\frac{3}{16}$ "		40" x 120"
$\frac{3}{16}$ "	$\frac{1}{4}$ "		50" x 100"
$\frac{1}{4}$ "			50" x 150"
$\frac{5}{16}$ "			60" x 60"
			60" x 120"
			120" x 120"



"JOHN CRANE" OIL-PROOF ASBESTOS SHEET PACKING

Style 888

STYLE 888 Compressed Oil-proof Asbestos Sheet Packing is made of carefully selected long fibre Canadian asbestos scientifically compounded with a heat and oil resisting binder, and compressed under extreme pressure. It is a homogeneous sheet, tough, pliable, resilient and possesses great tensile strength.

Gaskets cut from "John Crane" Style 888 can be supplied in round, oval, odd, or special shapes.

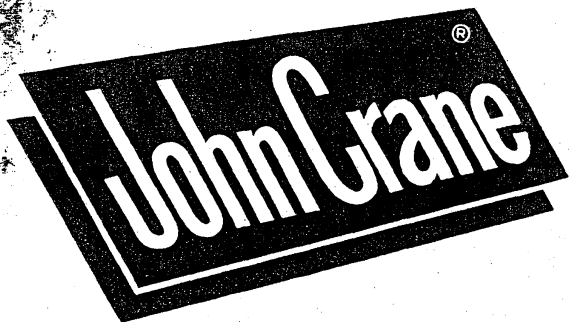
SERVICE — *Recommended for use on oil, steam, and all refinery gases and liquids at high temperatures.*

Style 888 sheet is excellent on methyl chloride, Freon, SO₂ and many chemicals.

Listed below are the sizes and thicknesses of standard sheets. Other sizes can be furnished.

STYLE 888 SHEET PACKING

Standard Thicknesses		Standard Sheet Sizes	Sizes Manufactured by Special Request
1/4"	3/8"	60" x 63"	40" x 40"
1/2"	1/2"	60" x 126"	40" x 120"
3/4"			120" x 126"



Engineered Sealing

*The John Crane Trademark Is Registered
In The United States And In The Principal
Foreign Countries Throughout The World*

See page 4 for
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Catalog No. 60R-7

Metallic

Fabric

and

Plastic Packings...

Mechanical

Seals



PACKING DISTRIBUTORS:

Portland, Oregon: Columbia Industrial & Marine Supplies Inc.
Mobile, Alabama: Marine Specialty Co.
Norfolk, Virginia: J. Henry Holland Corp.
Seattle, Washington: Atlas Packing & Rubber
Salt Lake City, Utah: Specialty Sales Co.
Honolulu: Lynch Company
Houston, Texas & New Orleans, Louisiana: Gulf Engineering Company
Birmingham, Alabama: Dixon Supply Co.
Baltimore, Maryland: Tate Engineering Co., Inc.
San Francisco, California: W. E. Musher Co. (Marine)
Duluth, Minnesota: Minnesota Bearing Co.

CRANE PACKING COMPANY

6400 Oakton Street, Morton Grove, Illinois

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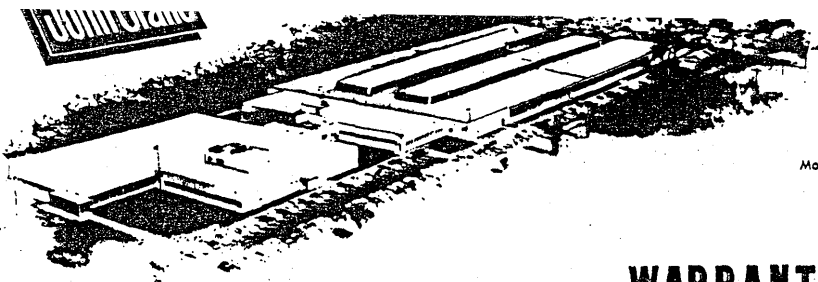
CRANE PACKING COMPANY, Limited
617 Parkdale Avenue North • P. O. Box 134,
Station C, Hamilton, Ontario

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INDUSTRIAS JOHN CRANE de MEXICO, S.A.
Poniente 152 No. 679 Industrial Vallejo
Mexico 16 D.F.



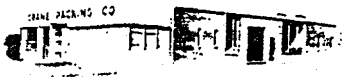
Marion Grove, Illinois

WARRANTY

CRANE PACKING COMPANY guarantees that any product of its manufacture, which upon examination is found by a Crane representative to be defective either in workmanship or material whereby it is not suitable under proper usage and service for the purpose for which designed, will be replaced free of charge including transportation charges but not cost of installation, or at our option the purchase price will be refunded. Our written consent must be obtained before goods may be returned, otherwise no credit and shipping charges will be allowed. This shall be Crane's maximum liability. The sale of Crane products under any other warranty or guarantee, expressed or implied, is not authorized by the Company.



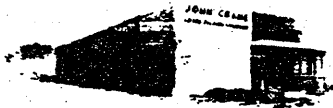
Houston, Texas



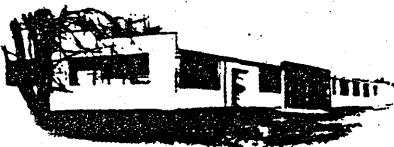
Hackensack, New Jersey



Los Angeles, California



San Francisco, California



Vandalia, Illinois



Hamilton, Ont., Canada



Mexico City, Mexico

Introduction

Since 1917 our manufacturing experience and the entire facilities of our research department have combined to produce not only packings to best meet the conditions of today but also the still more exacting services of tomorrow.

The mechanical packings, seals and other sealing products illustrated and described in this catalog are those styles and types which meet the common demand for normal industrial service. In addition to these, many John Crane styles are specifically engineered for special services and applications.

You are invited to request recommendations and assistance from experienced service engineers. Let them help you secure the proper sealing method for your requirements.



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Other John Crane Products not included in this catalog:

Lapmaster Lapping Machine and Accessories Bulletin L-450 and L-426

Products made of Teflon Catalog No. 80

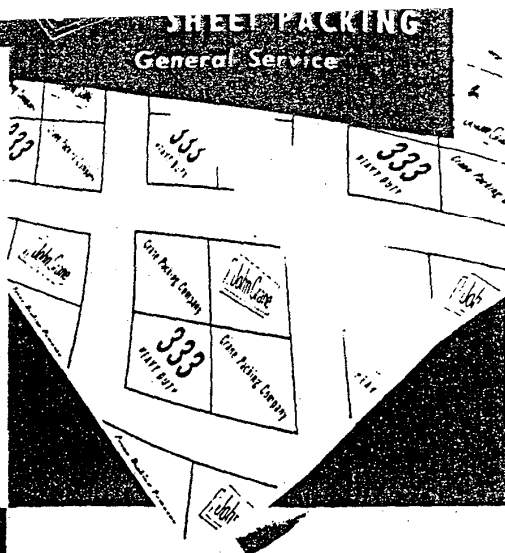
Recommended for service applications too severe to be handled by general line of asbestos sheet packing, such as superheated steam, heavy duty ammonia compressors and many chemical solutions. Fabricated from over 75% long fiber Chrysotile asbestos, approximately 15% G.R.S. synthetic rubber binder, plus special curing compounds. This style is supplied with a non-stick coating.

Tensile Strength: 5500 psi. average.

Standard Thicknesses: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $1\frac{1}{2}$ ".

Sheet Sizes: 50" x 50", 60" x 60", 150" x 150" and 75" x 150", other sizes available on application.

Approx. Wt. Per Sheet: 50" x 50" x $\frac{1}{16}$ "—10 lbs., other sizes in proportion.



For industrial, marine engine and general ship use at temperatures as high as +700°F., pressures to 400 psi. Fabricated from approx. 80% Chrysotile asbestos fiber, 12% G.R.S. synthetic rubber binder, plus special curing compounds. Meets MIL-A-17472, Class II; MIL-A-7021-A Class II; and ASTM-1170-G-1111-1 specifications.

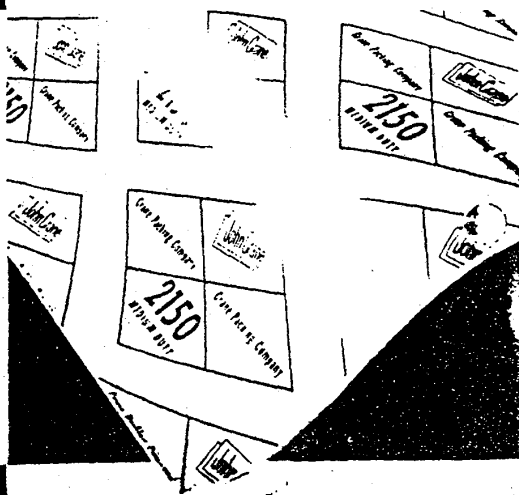
This style is supplied with a non-stick coating.

Tensile Strength: 3500 psi. average.

Standard Thicknesses: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $1\frac{1}{2}$ ".

Sheet Sizes: 50" x 50", 150" x 150" and 50" x 150", other sizes available on application.

Approx. Wt. Per Sheet: 50" x 50" x $\frac{1}{16}$ "—10 lbs., other sizes in proportion.



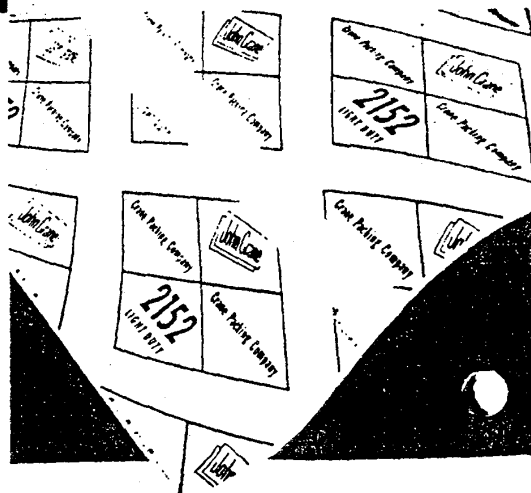
Extensively used and recommended for automotive and general industrial purposes where service conditions are not too exacting. Fabricated from approx. 75% Chrysotile asbestos fiber, 11% synthetic rubber binder. Meets ASTM-1170-G-1111-2 specifications.

Tensile Strength: 2200 psi. average.

Standard Thicknesses: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $1\frac{1}{2}$ ".

Sheet Sizes: 50" x 50", other sizes available on application.

Approx. Wt. Per Sheet: 50" x 50" x $\frac{1}{16}$ "—10 lbs., other sizes in proportion.



John Crane

SHEET PACKING

TFE

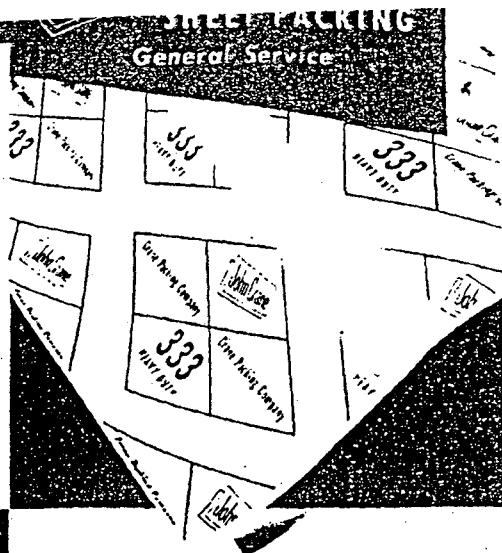
Recommended for service applications too severe to be handled by general line of asbestos sheet packing, such as superheated steam, heavy duty ammonia compressors and many chemical solutions. Fabricated from over 75% long fiber Chrysotile asbestos, approximately 15% G.R.S. synthetic rubber binder, plus special curing compounds. This style is supplied with a non-stick coating.

Tensile Strength: 5500 psi. average.

Standard Thicknesses: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $1\frac{1}{2}$ ".

Sheet Sizes: 50" x 50", 60" x 60", 150" x 150" and 75" x 150", other sizes available on application.

Approx. Wt. Per Sheet: 50" x 50" x $\frac{1}{16}$ "—10 lbs., other sizes in proportion.



For industrial, marine engine and general ship use at temperatures as high as +700°F., pressures to 400 psi. Fabricated from approx. 80% Chrysotile asbestos fiber, 12% G.R.S. synthetic rubber binder, plus special curing compounds. Meets MIL-A-17472, Class II; MIL-A-7021-A Class II; and ASTM-1170-G-1111-1 specifications.

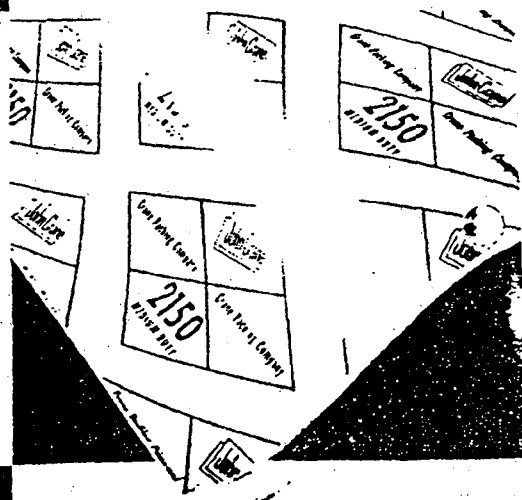
This style is supplied with a non-stick coating.

Tensile Strength: 3500 psi. average.

Standard Thicknesses: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $1\frac{1}{2}$ ".

Sheet Sizes: 50" x 50", 150" x 150" and 50" x 150", other sizes available on application.

Approx. Wt. Per Sheet: 50" x 50" x $\frac{1}{16}$ "—10 lbs., other sizes in proportion.



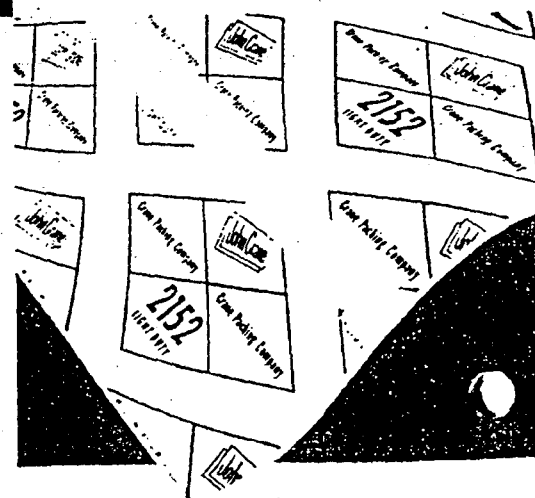
Extensively used and recommended for automotive and general industrial purposes where service conditions are not too exacting. Fabricated from approx. 75% Chrysotile asbestos fiber, 11% synthetic rubber binder. Meets ASTM-1170-G-1111-2 specifications.

Tensile Strength: 2200 psi. average.

Standard Thicknesses: $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{1}{4}$ ", $\frac{3}{8}$ ", $1\frac{1}{2}$ ".

Sheet Sizes: 50" x 50", other sizes available on application.

Approx. Wt. Per Sheet: 50" x 50" x $\frac{1}{16}$ "—10 lbs., other sizes in proportion.



For hot oil, gasoline and solvents, including vegetable and animal oils under heat and pressure. Unaffected by paraffin base and unsaturated aliphatic hydrocarbons, fatty acids found in vegetable and animal fats and oils, or by aliphatic alcohols, glycols or glycerols. Fabricated from quality asbestos, Buna-N binder. Contains no free sulphur. Will not corrode flanges. Meets AN-HH-G-171 and AMS-3232G specifications.

Tensile Strength: 4500 psi. average.

Standard Thicknesses: $\frac{1}{64}$ ", $\frac{1}{32}$ ", $\frac{1}{16}$ ", $\frac{3}{32}$ ", $\frac{1}{8}$ ".

Sheet Sizes: 60" x 126", 60" x 63", other sizes available on application.

Approx. Wt. Per Sheet: 60" x 63" x $\frac{1}{16}$ "—15 lbs., other sizes in proportion.



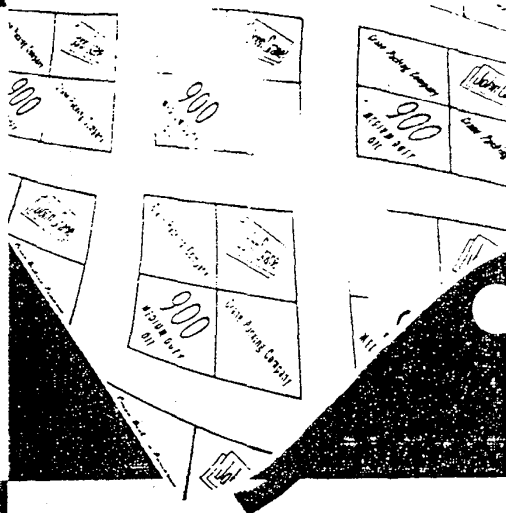
A 70-durometer Buna-N sheet for all types of gaskets, washers and seals in services involving extreme exposure to oils and aromatic fluids. This sheet has superior chemical resistance and flexibility. It resists tearing, weathering and gas penetration. Meets ASTM BG-710 specifications.

Tensile Strength: 1000 psi. average.

Standard Thicknesses: $\frac{1}{32}$ ", $\frac{1}{16}$ ", $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ".

Sheet Sizes: 36" to specified lengths.

Approx. Wt. Per Sheet: 36" x 36" x $\frac{1}{8}$ "—8 lbs., other sizes in proportion.



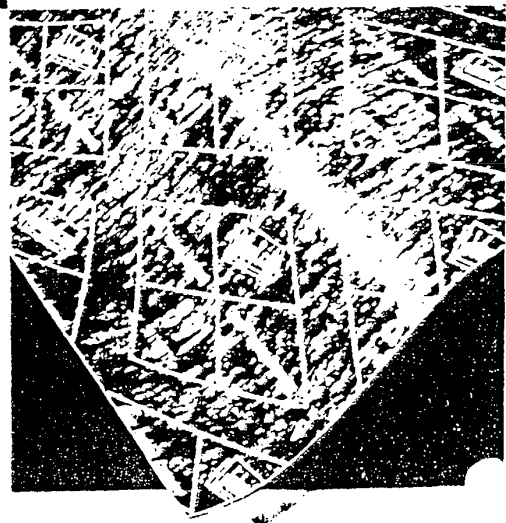
Suitable for oils and solvents of gasoline and Tuluol types. Sheet is widely used in aircraft and diesel engines. Absence of sulphur adapts it to use with copper and brass, also for refrigeration work where corrosion is a problem. Fabricated from fiberized asbestos, neoprene binder. Meets difficult AMS-3232, as well as AN-G-171 and MIL-G-7021 Class I specifications. Also general automotive and aeronautical specifications G-1122 and G-1123.

Tensile Strength: 3000 psi. average.

Standard Thicknesses: $\frac{1}{64}$ ", $\frac{1}{32}$ ", $\frac{1}{16}$ ", $\frac{3}{32}$ ", $\frac{1}{8}$ ".

Sheet Sizes: 50" x 50", 60" x 60", other sizes available on application.

Approx. Wt. Per Sheet: 60" x 60" x $\frac{1}{16}$ "—16 lbs., other sizes in proportion.





CRANE PACKING COMPANY

6400 OAKTON STREET, MORTON GROVE, ILLINOIS 60053 (Chicago Suburb)

In Canada: Crane Packing Company, Ltd., Box 3248, Station C, Hamilton, Ont.

In Mexico: Industrias John Crane de Mexico, S.A. • Poniente 152 #679 Industrial Vallejo, Mexico, D.F.

In Brazil: John Crane Industria E Comercio, Ltda. • Avenida Jurubatuba 600, Sao Bernardo do Campo, S.P.

In Australia: John Crane Mauri Pty., Ltd., 168 Eldridge Road, Bankstown, New South Wales, Australia

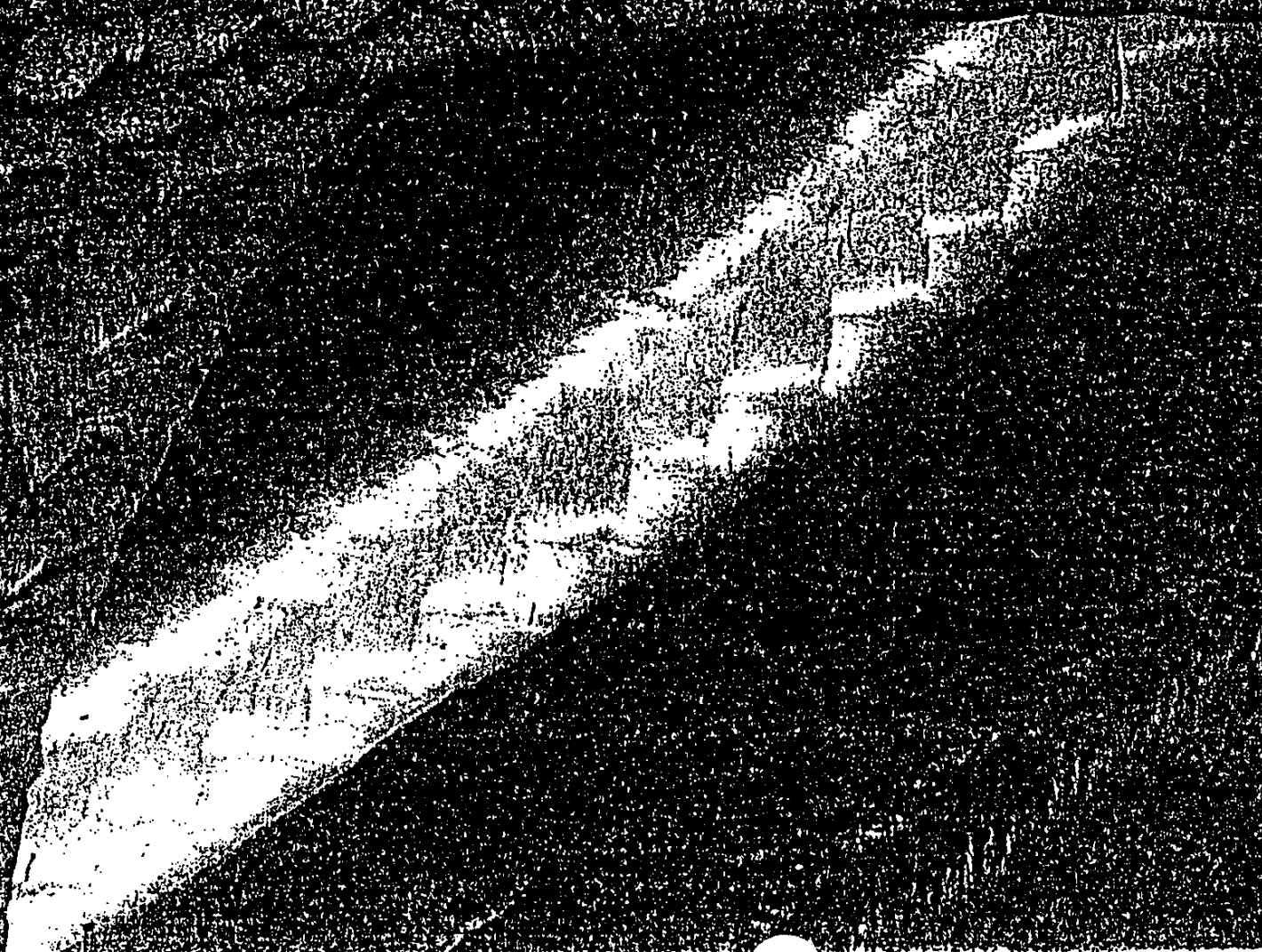
In Europe: Crane Packing Ltd., Slough, Bucks, England

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OFFICES, WAREHOUSES AND SERVICE THE WORLD OVER

Rite©PakTM Packing

Crane Packing Company



DEFENDANTS
EXHIBIT
GROSS
70993712

Non-Asbestos Packings

John Crane engineered non-asbestos packings are longer lasting, safer and less abrasive than asbestos-type packings. Recognized as the standard in their field, our new generation of quality non-asbestos materials are specifically developed to meet existing OSHA requirements.

Whatever your application, John Crane offers non-asbestos packings for virtually any shaft or valve stem service from plain water to destructive chemicals and corrosives. With temperature ranges up to +1000°F (+538°C) and pH ranges from 0-14, Rite-Pak Packings are the perfect complement for your individual sealing system.

Non-Asbestos, Braided TFE Tape and Filament Yarn

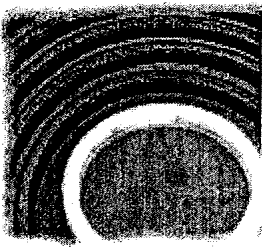
John Crane TFE Braided Packings are particularly adapted to chemical, refining, paper or kindred industries. Completely non-toxic, they are perfectly safe for handling related liquids or gases.

Constructed from TFE tape or TFE fiber yarns, depending on service requirements. The packing remains intact, even though individual strands might wear away. Their construction provides maximum flexibility (small rings can be formed without buckling the I.D. or distorting the O.D.).

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John Crane Packings are designed, engineered and constructed for specific services and applications. This is your assurance that John Crane Packings will provide the best sealing with the least amount of maintenance and adjustment.

All John Crane are made of asbestos-free materials. These asbestos-free packings can be substituted without any difficulty for asbestos packings in present use.

They can be interchanged with most asbestos products, and in many cases will give better, more dependable performance.

Braided Acrylic Packings

JC Style C60

JC Style 600K

Braided PTFE/Modified PTFE Packings

JC Style C1045

JC Style C1056(FDA)

JC Style C1065

JC Style C1065I

JC Style 1993

Braided Carbon and Graphite Packings

JC Style 774

JC Style G58

JC Style G57

**2160/4160**

S-2160/4160-A

NON-ASBESTOS SHEET GASKETING

Overview

John Crane Style 2160 and Style 4160 sheet gasketing are good general purpose materials that have excellent chemical resistance. The unique properties of these materials help to deliver excellent performance and sealability in severe industrial applications including alkalis, organic acids, and marine engines.

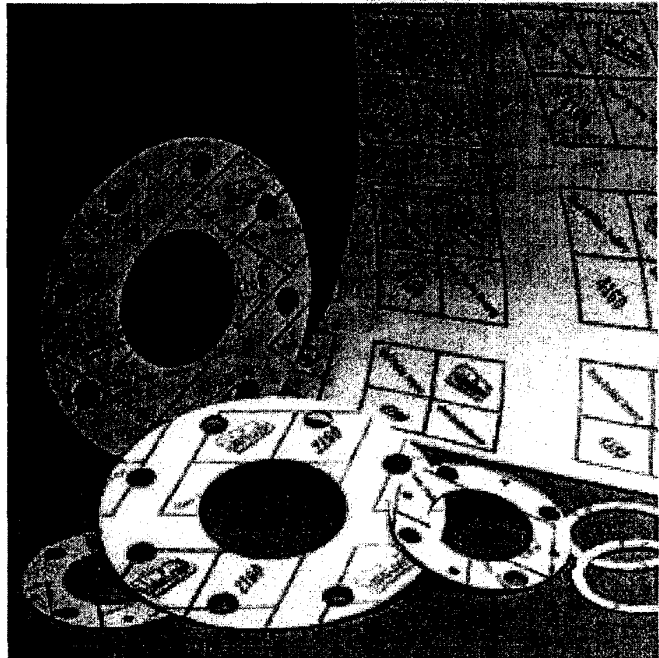
Construction/Features

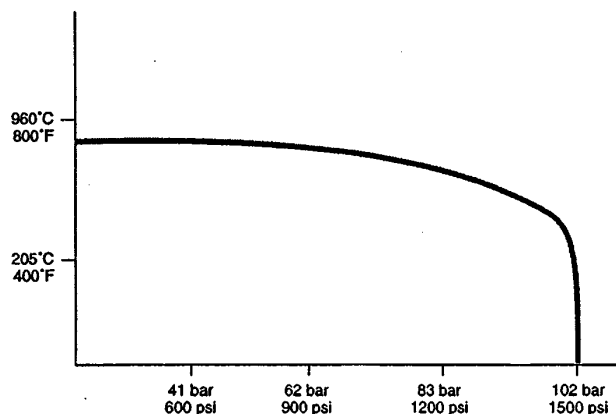
John Crane Style 2160 sheet gasket is a compressed sheet with a synthetic fiber base and butadiene acrylonitrile binder. This material has excellent sealability and exhibits good creep resistance. The material is rated for temperatures ranging from -40 to 750 degrees Fahrenheit at pressures of up to 102 bar/1400 psi.

John Crane Style 4160 sheet gasket is a compressed sheet with synthetic fiber base and styrene butadiene rubber binder. This material has excellent sealability, good anti-stick properties, and exhibits good creep resistance. The material is rated for temperatures ranging from -25 to 750 degrees Fahrenheit at pressures of up to 68 bar/1200 psi.

These two gasket styles provide maximum safety and high torque retention. Overall cost savings can be realized by:

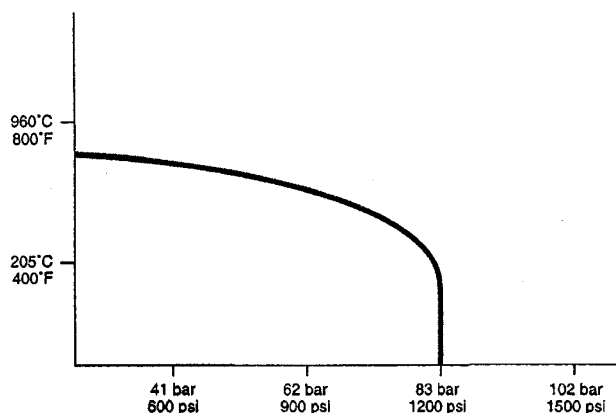
- Reduction of inventory (standard gasket for many applications)
- Reduction of gasket leaks (product loss)
- Reduction of maintenance

2160/4160

**2160/4160****NON-ASBESTOS SHEET GASKETING****2160 Temperature vs. Pressure
(Liquids, 1/16" Sheet Thickness)****Properties 2160**

Properties are based on a 1/16" sheet.

- **Color:** Off-white
- **Density:** 112 lb/ft³
- **ASTM F36A:** 7-17%/50%
(Compressibility/
Recovery)
- **ASTM F37A:** 0.25 mL/hour
(Sealability) (.58 gal/yr)
- **ASTM F38B:** 20%
(Creep Relaxation)
- **Cross Grain
Tensile Strength:** 138 bar/2000 psi

**4160 Temperature vs. Pressure
(Liquids, 1/16" Sheet Thickness)****Properties 4160**

Properties are based on a 1/16" sheet.

- **Color:** Off-white
- **Density:** 112 lb/ft³
- **ASTM F36A:** 7-17%/50%
(Compressibility/
Recovery)
- **ASTM F37A:** 0.20 mL/hour
(Sealability) (.46 gal/yr)
- **ASTM F38B:** 20%
(Creep Relaxation)
- **Cross Grain
Tensile Strength:** 109 bar/1600 psi

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1-800-647-2548**Latin America**
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Slough, UKTel: 44-1753-224000
Fax: 44-1753-224224**Asia Pacific**
SingaporeTel: 65-222-9161
Fax: 65-223-5035

If the products featured will be used in a potentially dangerous and/or hazardous process, your John Crane representative should be consulted prior to their selection and use. In the interest of continuous development, John Crane Companies reserve the right to alter designs and specifications without prior notice.