ENGINEERING STANDARDS

# MATERIALS MANUAL

PAGE
SUPSD.REV. 4
DATE 7/22/85

SHEET PACKING-ASBESTOS

MATERIAL DESIGNATION 5128

PLAINTIFF'S EXHIBIT

GOU-7

## JOHNS-MANVILLE JM 86-A

COMPRESSED ASBESTOS SHEET MADE FORM WHITE CHRYSOTILE ASBESTOS FIBRES, WITH SPECIAL FORMULATED EPDM BINDER TO RESIST ACID - HIGH STRENGTH GASKET MATERIAL COATED WITH NON-STOCK PARTING AGENT. GRAY/BLACK COLOR.

TOLERANCES:

THICKNESS (INCHES):

| | | | | |
|---|---|---|---|---|
| NOMINAL | - | 1/32" | 1/16" | 1/8" |
| MINIMUM | - | .026 | .056 | .110 |
| MAXIMUM | - | .036 | .068 | .140 |
| ITEM NO. | - | 0003 | 0006 | 0012 |

USES:

RECOMMENDED FOR USE AGAINST CONCENTRATED ACID AND ACID SALT SOLUTION.

TEMPERATURE:

SUITABLE FOR TEMPERATURES TO 850°F.

ACCEPTABLE EQUIVALENTS:

GARLOCK PACKING - #7705
DURABLA MFG. CO.

OBSOLETE
REPLACED BY
DWG. 5127

ECN# 02023

HEL DER 5-23-60

5128 REV. 5

GOULDS PUMPS
ENGINEERING STANDARDS

**MATERIALS MANUAL**

CAT. ES-2
PAGE H-05.128
SUPSD.REV. REV 1
DATE 5-30-78

SHEET PACKING-ASBESTOS

GOULDS CLASS —5128

JOHNS MANVILLE JM 86-A

COMPRESSED ASBESTOS SHEET MADE FROM WHITE CHRYSOTILE ASBESTOS FIBRES, WITH SPECIAL FORMULATED EPDM BINDER TO RESIST ACID - HIGH STRENGTH GASKET MATERIAL COATED WITH NON-STICK PARTING AGENT. GRAY/BLACK COLOR.

TOLERANCES:

| THICKNESS (INCHES): | | *-STOCKED | | |
|---|---|---|---|---|
| NOMINAL | - | *1/32" | *1/16 | *1/8 |
| MINIMUM | - | .026 | .056 | .110 |
| MAXIMUM | - | .036 | .068 | .140 |
| GOULDS ITEM NO. | - | 0003 | 0006 | 0012 |

USES:

RECOMMENDED FOR USE AGAINST CONCENTRATED ACID AND ACID SALT SOLUTION.

TEMPERATURE:

SUITABLE FOR TEMPERATURES TO 850°F

SPECIFICATION EQUIVALENTS:

GARLOCK 7705
BELMONT 6755
DURABLA-ASBESTOS

| | |
|---|---|
| MEX | |
| ARG | |
| BRAZIL | |
| | |
| | |
| STOC BOOK | ✓ |
| G-VPD LUB. | |
| G-VPD L.A. | |
| BELOIT | |
| TECH CENTER | |
| PATT. SHOP | |
| TOOL DESIGN | |
| PRINTS TO | |

| DR. BY DLS | CK. BY DEL | 5128 | REV 3 |
|---|---|---|---|
| APPVD. | DATE 10-24-77 | SHEET NO. | |

# GOULDS PUMPS INC.
SENECA FALLS, NEW YORK, U. S. A.

ALPHA INDEX OR ITEM: SURFACE PACKING

## MATERIALS SPECIFICATIONS SHEET

MATERIAL CLASS: F-5128

STOCK SHEET NO.:

SHEET ASBESTOS - JOHNS MANVILLE STYLE 884

DESCRIPTION:

MADE OF BLUE AFRICAN CRYSOTILE ASBESTOS, BONDED WITH AN ACID RESISTING BINDER. A TOUGH, DENSE SHEET FOR FLANGE SERVICE AGAINST MOST ACIDS. FURNISHED IN SHEETS 36X63" WITH A TOLERANCE OF PLUS OR MINUS .004" ON THICKNESS.

MAX. TEMP. 700 DEG. F.

| THICKNESS | 1/16" | 1/32" | 1/8" |
|---|---|---|---|
| ITEM CODE | 0006 | 0003 | 0012 |

PURCHASING DATA:

PURCHASED FROM JOHNS MANVILLE, NEW YORK, NEW YORK
DESIGNATION - BLUE ASBESTOS FIBRE SHEET PACKING
STYLE 884 WITH A TOLERANCE OF PLUS OR MINUS .004"

CODE SHEET CHECKED WITH MATERIAL 6-12-67

| DATE | REVISED | | | | | BG 1 | PAGE NO. |
|---|---|---|---|---|---|---|---|
| 5-23-60 | 2-12-63 ~~12-19-63~~ | | | | | AGD 1 | 1 |
| BY: ABL | DER | | | | | | |

| | | |
|---|---|---|
| DATE 5-23-60 | STANDARDS | MUFFLE INDEX SURFACE PACKING |
| WRITTEN BY A.B.L. | GOULDS PUMPS, INC. | DWG. NO. |
| REVISED DATE 3-12-63 DER | SENECA FALLS, N.Y. | MATERIAL - CLASS 5128 |
| REVISED DATE 12-18-63 | | OLD DESIGNATION |
| 6/12/67 DER | SHEET ASBESTOS | |

DESCRIPTION:

MADE OF BLUE AFRICAN CRYSOTILE ASBESTOS FIBRE, BONDED WITH AN ACID RESISTING BINDER. A TOUGH, DENSE SHEET FOR FLANGE SERVICE AGAINST MOST ACIDS. FURNISHED IN SHEETS 36x63" WITH A TOLERANCE OF PLUS OR MINUS .004" ON THICKNESS. MAX. TEMP. 700°F.

| THICKNESS(INCHES) | 1/16" | 1/32" | 1/8" |
|---|---|---|---|
| ITEM CODE | 0006 | 0003 | 0012 |
| ~~WEIGHT(LB PER SQ FT)~~ | ~~3.0~~ | ~~1.5~~ | ~~10.0~~ |

USES:

USED ON F.I.G. 3196 CASING GASKETS, FOR MOST ACIDS.

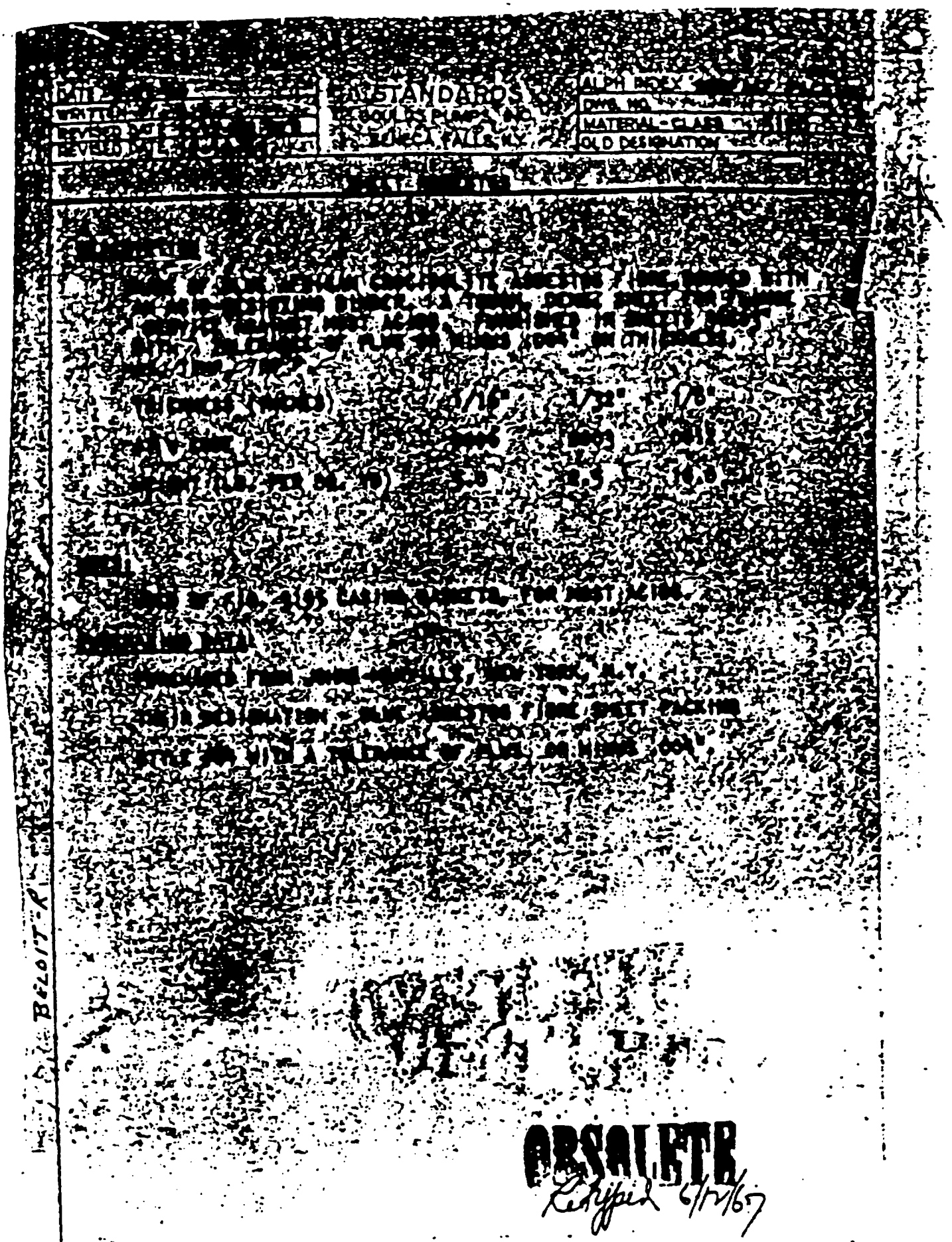
PURCHASING DATA:

PURCHASED FROM JOHNS-MANVILLE, NEW YORK, N.Y.
THEIR DESIGNATION - BLUE ASBESTOS FIBRE SHEET PACKING
STYLE #84 WITH A TOLERANCE OF PLUS OR MINUS .004".

AGP - R
DELOIT-R

OBSOLETE

CODE SHEET CHECKED WITH MATERIAL 6/12/67


STANDARDS
OBSOLETE
Retyped 6/1/67

GOULDS PUMPS
ENGINEERING STANDARDS

**MATERIALS MANUAL**

CAT. E3-C
PAGE H-05.131
SUPSD.REV. 2
DATE 7/22/85

ASTM D-1170
GR. P-1161-A

SHEET PACKING-ASBESTOS

MATERIAL DESIGNATION 5131

JOHNS MANVILLE JM-61 OR 1661

MADE OF LONG FIBRE ASBESTOS (65-75%) SBR SYNTHETIC RUBBER BINDER, FILLERS AND CURATIVES. POSSESSES EXCEPTIONAL ANTI-AGING CHARACTERISTICS AND DOES NOT DRY OUT IN STORAGE. COLOR IS EGG SHELL WHITE, COATED WITH A COLORLESS PARTING AGENT. MUST CONFORM TO ASTM D-1170 SPECIFICATIONS, GRADE P-1161-A. PURCHASED IN SHEETS 36"x106", BUT LARGER SIZES CAN BE OBTAINED.

TOLERANCE:

THICKNESS (INCHES):

| | | | | | |
|---|---|---|---|---|---|
| NOMINAL | - | 1/64 | 1/32 | 1/16 | 1/8 |
| MINIMUM | - | .012 | .026 | .055 | .111 |
| MAXIMUM | - | .020 | .036 | .067 | .131 |
| ITEM NO. | - | 0001 | 0003 | 0006 | 0012 |

USES:

SAME AS J.M. STYLE #60, BUT IN ADDITION, IT IS RECOMMENDED FOR FOOD SERVICE OR OTHER APPLICATIONS WHERE DISCOLORATION IS UNDESIRABLE.

| TEMPERATURE | PRESSURE |
|---|---|
| 60°F | 2500 PSI |
| 250°F | 1000 PSI |
| 400°F | 625 PSI |
| 650°F | 385 PSI |
| 850°F | 290 PSI |

SPECIFICATION EQUIVALENT:

DUPONT S-1
GARLOCK 7735-S1

OBSOLETE
REPLACED BY
DWG. 5106

ECN#02023

KEL | DCK

5131

REV. 3

GOULDS PUMPS
ENGINEERING STANDARDS

CAT. ES-2
PAGE H-05.131
DATE 9-5-72

ASTM D-1170
GR. P-161-A

SHEET PACKING-ASBESTOS
GOULDS CLASS - 5131

JOHNS MANVILLE JM 61 OR 1661

MADE OF LONG FIBRE ASBESTOS (65-75%) SBR SYNTHETIC RUBBER BINDER, FILLERS AND CURATIVES. POSSESSES EXCEPTIONAL ANTI-AGING CHARACTERISTICS AND DOES NOT DRY OUT IN STORAGE. COLOR IS EGG SHELL WHITE, COATED WITH A COLORLESS PARTING AGENT. MUST CONFORM TO ASTM D-1170 SPECIFICATIONS, GRADE P-1161-A. PURCHASED IN SHEETS 36" x 106" BUT LARGER SIZES CAN BE OBTAINED.

TOLERANCE:

THICKNESS (INCHES): * - STOCKED FOR MODEL 3175

| | *1/64 | 1/32 | *1/16 | 1/8 |
|---|---|---|---|---|
| NOMINAL | | | | |
| MINIMUM | .012 | .026 | .055 | .111 |
| MAXIMUM | .020 | .036 | .067 | .131 |
| GOULDS ITEM NO. | 0001 | 0003 | 0006 | 0012 |

USES:

SAME AS J. M. STYLE #60, BUT IN ADDITION, IT IS RECOMMENDED FOR FOOD SERVICE OR OTHER APPLICATIONS WHERE DISCOLORATION IS UNDESIRABLE.

VEN-R
BRAZIL-1
CANG-R
MEXICO-M

| TEMPERATURE | PRESSURE |
|---|---|
| 60° F | 2500 PSI |
| 250° F | 1000 PSI |
| 400° F | 625 PSI |
| 650° F | 385 PSI |
| 850° F | 290 PSI |

SPECIFICATION EQUIVALENT:

DUPONT S-1

GARLOCK 7735-S1

5131 REV 1

SHEET NO 1 OF 1

GOULDS PUMPS INC.
SENECA FALLS, NEW YORK, U. S. A.

ALPHA INDEX OR ITEM: SURFACE PACKING

# MATERIALS SPECIFICATIONS SHEET

MATERIAL CLASS: 5131

STOCK SHEET NO.: TY

SHEET ASBESTOS - JOHNS MANVILLE STYLE 51

DESCRIPTION:

MADE OF LONG FIBRE ASBESTOS (65-75%) SRB SYNTHETIC RUBBER BINDER, FILLERS AND CURATIVES. POSSESSES EXCEPTIONAL ANTI-AGING CHARACTERISTICS AND DOES NOT DRYOUT IN STORAGE. COLOR IS EGG SHELL WHITE, IS NOT GRAPHITED. PURCHASED IN SHEETS 36X106" BUT LARGER SIZES CAN BE OBTAINED.

| THICKNESS-INCHES | 1/64" | 1/32" | 1/16" | 1/8" |
|---|---|---|---|---|
| ITEM CODE | 0001 | 0003 | 0006 | 0012 |

*STOCKED FOR MODEL 3175

USES:

SAME AS J.M. STYLE 60 BUT IN ADDITION IT IS RECOMMENDED FOR FOOD SERVICE OR OTHER APPLICATIONS WHERE DISCOLORATION IS UNDESIRABLE.

| TEMPERATURE | PRESSURE |
|---|---|
| 60 DEG.F. | 2500 PSI |
| 250 DEG.F. | 1000 PSI |
| 400 DEG.F. | 625 PSI |
| 650 DEG.F. | 385 PSI |
| 850 DEG.F. | 290 PSI |

| DATE: | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3-29-66 | | | | | | BG | PAGE NO.: |
| BY: ABL | | | | | | AGO | 1/1 |

# GOULDS PUMPS INC.

SENECA FALLS, NEW YORK

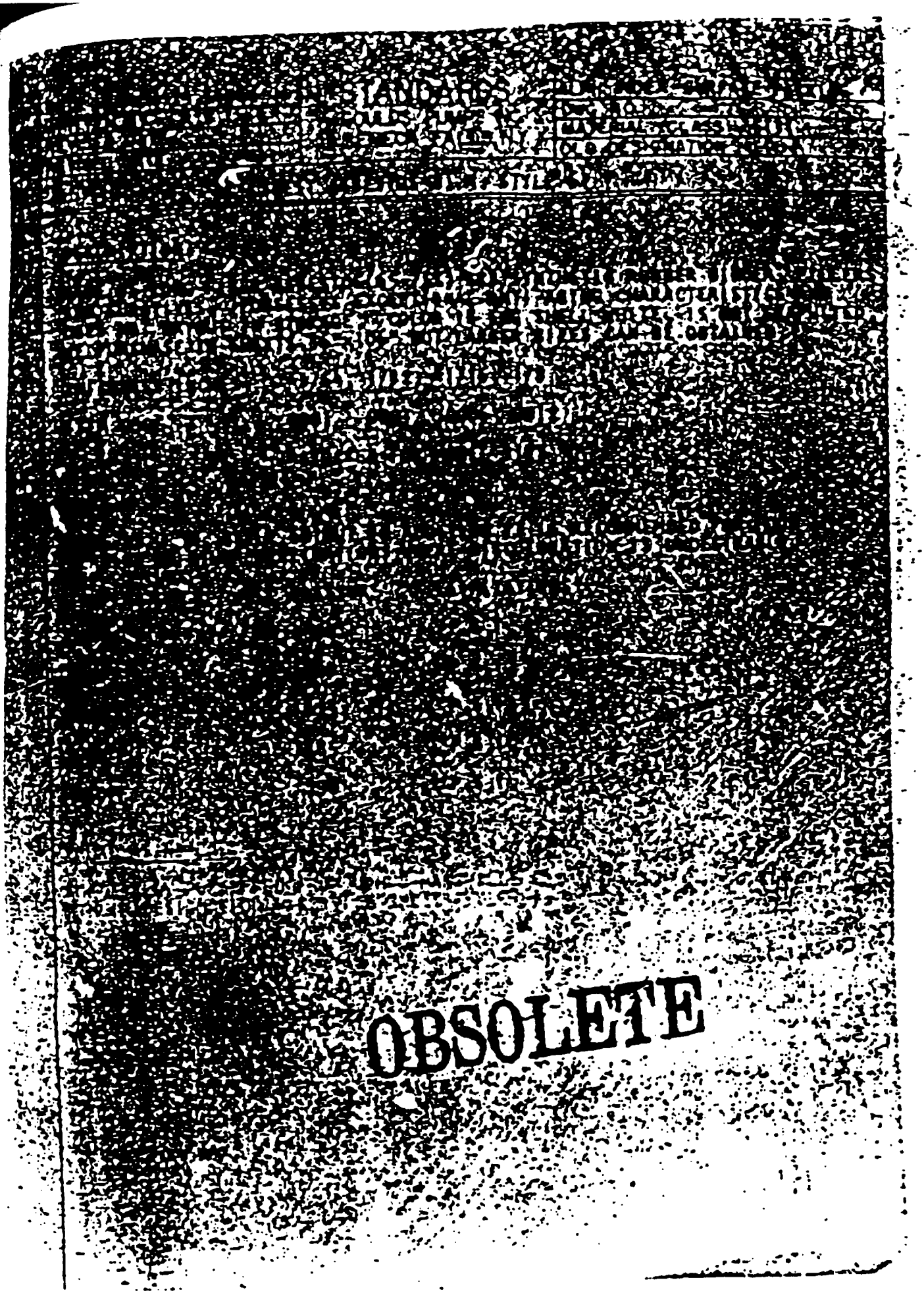
## MATERIALS SPECIFICATIONS SHEET

MADE OF LONG FIBRE ASBESTOS (65-75%) BUNA N SYNTHETIC RUBBER BINDER, FILLERS AND CURATIVES. POSSESSES EXCEPTIONAL ANTI-AGING CHARACTERISTICS AND DOES NOT DRY OUT IN STORAGE. COLOR IS ECC SHELL WHITE, COATED WITH A COLORLESS PARTING AGENT. MUST CONFORM TO ASTM D-1170 SPECIFICATIONS, GRADE T-1161-A. PURCHASED IN SHEETS 36" X 30" BUT LARGER SIZES CAN BE OBTAINED.

SAME AS J. M. STYLE 460, BUT IN ADDITION, IT IS RECOMMENDED FOR FOOD SERVICE OR OTHER APPLICATIONS WHERE DISCOLORATION IS UNDESIRABLE.

| TEMPERATURE | PRESSURE |
|---|---|
| 60° F | 2500 PSI |
| 250° F | 1000 PSI |
| 400° F | 625 PSI |
| 650° F | 385 PSI |
| 850 | 290 PSI |

| DATE: | REVISED | | | | | B-G | PAGE NO.: |
|---|---|---|---|---|---|---|---|
| 3/29/66 | 10/10/69 | | | | | AGO | |
| BY: ABL | EAS | | | | | | 1/1 |


OBSOLETE

GOULDS PUMPS
ENGINEERING STANDARDS

# MATERIALS MANUAL

CAT. ES-2
PAGE H-05.132
SUPSD.REV. 3
DATE 7/21/85

ASTM D-1170
GRADE P-1242D

SHEET PACKING-ASBESTOS

MATERIAL DESIGNATION 5132

ARMSTRONG SHEET ASBESTOS NO. AN890

OR *LEXIDE NA-516; NA-526

HEAVY DUTY ASBESTOS MATERIAL WITH A NITRIL-BUTADIENE RUBBER BINDER. BOTH SIDES COATED WITH ARMSTRONG 101 COATING (NON-STICKING MATERIAL).

TOLERANCE:

THICKNESS (INCHES):

| | | | | |
|---|---|---|---|---|
| NOMINAL | - | 1/64 | 1/32 | 1/16 |
| MINIMUM | - | .013 | .028 | .057 |
| MAXIMUM | - | .018 | .034 | .067 |
| ITEM NO. | - | 0001 | 0003 | 0006 |

MECHANICAL PROPERTIES:

| | |
|---|---|
| DENSITY (MIN. LB/FT$^3$) | 82 |
| TENSILE STRENGTH (MIN PSI) | 2000 |
| COMPRESSIBILITY (5000 PSI, %) | 20 - 30 |
| RECOVERY (MIN. %) | 35 |
| MIN. SEALING STRESS (PSI) | 1500 |

USES:

RECOMMENDED FOR USE ON HANDLING HOT AND COLD WATER, GASOLINE, AMMONIA, OIL, SOME WEAK ACIDS, SOME ALKALIS AND OTHER CHEMICALS.

MAX. TEMPERATURE:

800°F

OBSOLETE
REPLACED BY
DWG. 5108

APPROVED VENDOR:

PRODUCT OF LATEX FIBER INDUSTRIES, INC. ECN# 02023

GOULDS PUMPS
ENGINEERING STANDARDS
MATERIALS MANUAL

CAT. ES-2
PAGE H-05.132
DATE 9-5-72

ASTM D-1170
GRADE P-1242D

SHEET PACKING-ASBESTOS
GOULDS CLASS - 5132

ARMSTRONG SHEET ASBESTOS NO. AN890

OR * LEXIDE NA-516

HEAVY DUTY ASBESTOS MATERIAL WITH A NITRIL-BUTADIENE RUBBER BINDER. BOTH SIDES COATED WITH ARMSTRONG 101 COATING (NON-STICKING MATERIAL).

TOLERANCE:

| THICKNESS (INCHES): | | * - STOCKED | | |
|---|---|---|---|---|
| NOMINAL | - | *1/64 | *1/32 | *1/16 |
| MINIMUM | - | .013 | .028 | .057 |
| MAXIMUM | - | .018 | .034 | .067 |
| GOULDS ITEM NO. | - | 0001 | 0003 | 0006 |

PHYSICAL PROPERTIES:

| | |
|---|---|
| DENSITY (MIN. LB/FT $^3$) | 82 |
| TENSILE STRENGTH (MIN PSI) | 2000 |
| COMPRESSIBILITY(5000 PSI,%) | 20 TO 30 |
| RECOVERY (MIN %) | 35 |
| MIN. SEALING STRESS (PSI) | 1500 |

BRAID
VEN-R
GANG-R

USES:

RECOMMENDED FOR USE ON HANDLING HOT AND COLD WATER, GASOLINE AMMONIA, OIL SOME WEAK ACIDS, SOME ALKALIS AND OTHER CHEMICALS.

MAX. TEMP:

800° F

APPROVED VENDOR:
* PRODUCT OF LATEX FIBER INDUSTRIES, INC.

SECT. 2

**GOULDS PUMPS INC.**
SENECA FALLS, NEW YORK, U. S. A.

ALPHA INDEX OR ITEM - SURFACE PACKING

# MATERIALS SPECIFICATIONS SHEET

MATERIAL CLASS - 5132

STOCK SHEET NO.

ARMSTRONG SHEET ASBESTOS

AN-890

RETYPED NO CHANGE

DESCRIPTION:

HEAVY DUTY ASBESTOS MATERIAL WITH A NITRIL-BUTADIENE RUBBER BINDER. BOTH SIDES COATED WITH ARMSTRONG 101 COATING (NON-STICKING MATERIAL).

MAX TEMP 800° F.

THICKNESS (INCHES)

| | | | |
|---|---|---|---|
| NOMINAL | 1/64* | 1/32* | 1/16 |
| MINIMUM | .013 | .028 | .057 |
| MAXIMUM | .018 | .034 | .067 |
| ITEM CODE | 0001 | 0003 | 0006 |

* STOCKED.

PHYSICAL PROPERTIES:

| | |
|---|---|
| DENSITY (MIN. LB/FT.) | [illegible] |
| TENSILE STRENGTH (MIN PSI) | 2000 |
| COMPRESSIBILITY (5000 PSI, %) | 20 TO 30 |
| RECOVERY (MIN %) | 35 |
| MIN. SEALING STRESS (PSI) | 1500 |

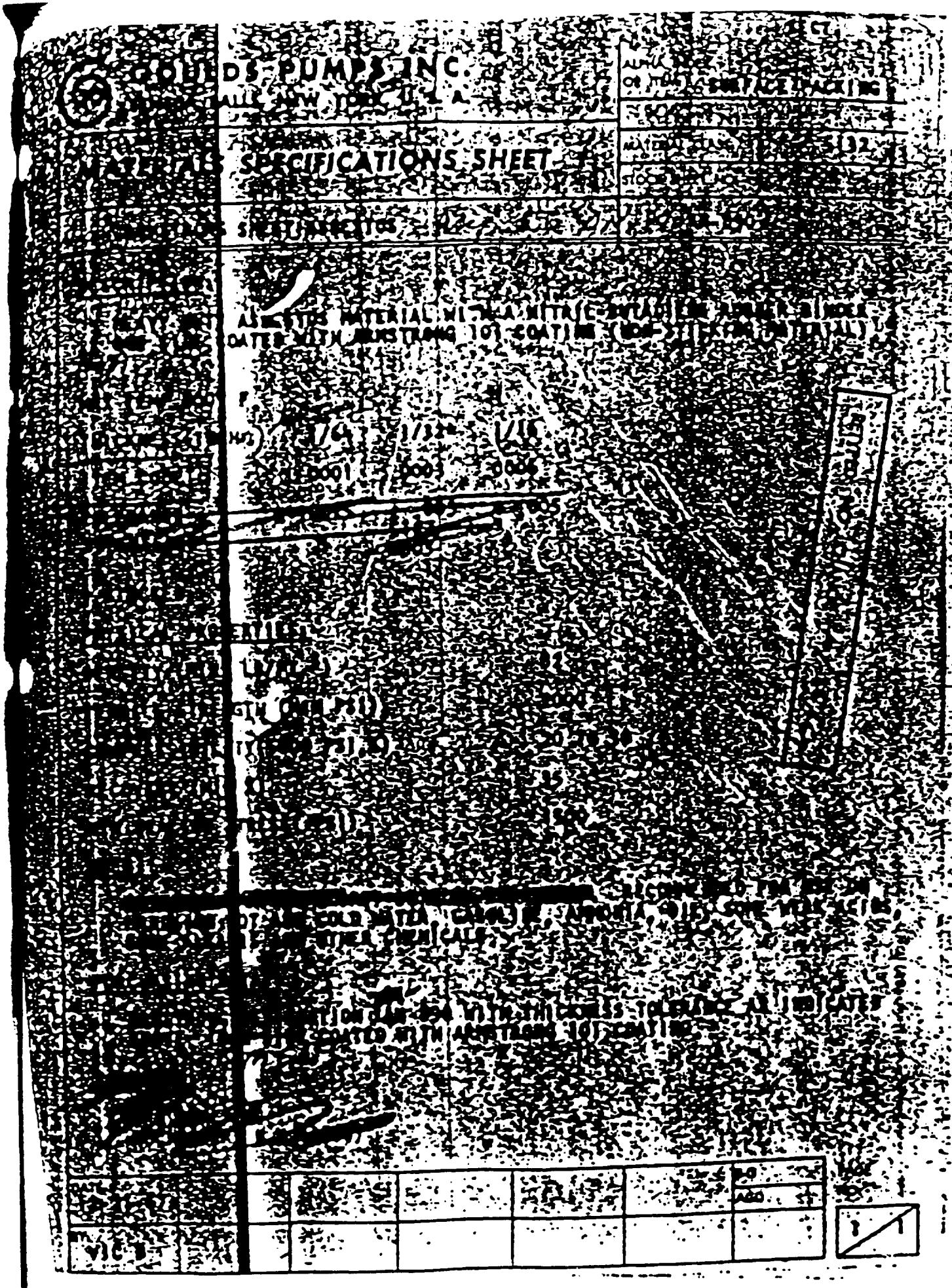
USES:

RECOMMENDED FOR USE ON HANDLING HOT AND COLD WATER, GASOLINE, AMMONIA, OIL, SOME WEAK ACIDS, SOME ALKALIS AND OTHER CHEMICALS.

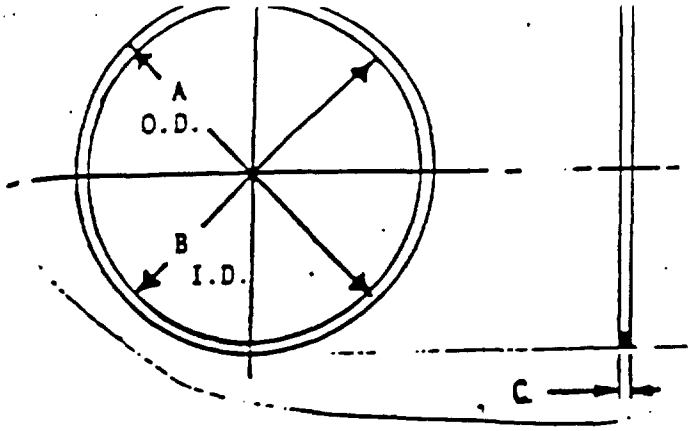
PURCHASING DATA:

ARMSTRONG DESIGNATION AN-890 WITH THICKNESS TOLERANCES AS INDICATED ABOVE. BOTH SIDES COATED WITH ARMSTRONG 101 COATING.

| DATE: 10-29-69 | | | | | | B-G / AGD | PAGE NO. - |
|---|---|---|---|---|---|---|---|
| BY: L.C. | | | | | | | |



PAGE H-00.947A
SUPSD.REV. 4
DATE 7/22/85




MAX. TEMP. 800°F
MAX. TEST PRESSURE 1200 PSI

| ITEM NO. | "A" OD ±1/32 | "B" ID ±1/64 | "C" THK. | COMPRESSED THICKNESS | FLEXITALLIC STYLE-R PART NO. | JOHNS-MANVILLE STYLE PART NO. | PARKER-HANNIFIN PART NO. | USED ON |
|---|---|---|---|---|---|---|---|---|
| ~~01~~ | 8-1/2 | 7-1/4 | .175 | .125-.135 | | | | 7" 3700 |
| ~~02~~ | 10-11/16 | 9-9/16 | .175 | .125-.135 | | | | 9" 3700 |
| ~~03~~ | 12-3/4 | 11-9/16 | .175 | .125-.135 | | | | 11"3700 M&S |
| ~~04~~ | 14-7/8 | 13-5/8 | .175 | .125-.135 | | | | 3700 |
| ~~05~~ | 17-13/16 | 16-9/16 | .175 | .125-.135 | | | | 3700 |
| ~~06~~ | 23-1/16 | 21-11/16 | .175 | .125-.135 | | | | 3700 |
| ~~07~~ | 16-13/16 | 15-9/16 | .175 | .125-.135 | | | | SYNFUEL |
| ~~08~~ | 22-9/16 | 21-5/16 | .175 | .125-.135 | | | | SYNFUEL |
| ~~09~~ | 28-1/16 | 26-11/16 | .175 | .125-.135 | | | | SYNFUEL |
| ~~10~~ | | | | | | | | |
| ~~11~~ | 10-11/64 | 9-33/64 | .175 | .125-.135 | | | | 7"&9" 3900 |
| ~~12~~ | 12-3/16 | 11-17/32 | .175 | .125-.135 | | | | 11" 3900 |
| 13 | 14-1/4 | 13-19/32 | .175 | .125-.135 | | | | 13" 3900 |
| 14 | 17-3/16 | 16-17/32 | .175 | .125-.135 | | | | 16" 3900 |

THESE GASKETS MUST CONFORM TO EITHER OF THE FOLLOWING SPECS:

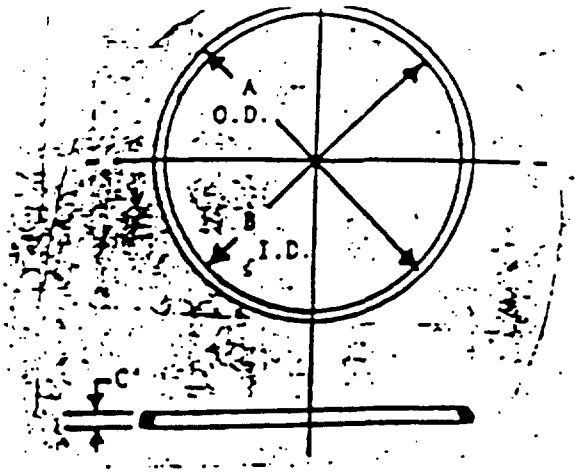
1) FLEXITALLIC GASKET CO. - SPIRAL WOUND GASKET STYLE SPECIAL "R" WITH CUSHIONED CONSTRUCTION. ASBESTOS TO EXTEND BEYOND WIDTH OF METAL ON BOTH SIDES BY APPROXIMATELY 1/64". TOTAL THICKNESS OF GASKET TO BE .200 ± .005, "C" DIMENSION TO BE WIDTH OF METAL. METAL TO BE 316 STAINLESS STEEL.
2) JOHNS-MANVILLE PRODUCTS - "SPIROTALLIC" SPIRAL WOUND GASKET STYLE 911. METAL TO BE 316 STAINLESS STEEL WITH CUSHIONED CONSTRUCTION. ASBESTOS TO EXTEND BEYOND WIDTH OF METAL ON BOTH SIDES BY APPROXIMATELY 1/64". TOTAL THICKNESS OF GASKET TO BE .200 ± .005, "C" DIMENSION TO BE WIDTH OF METAL.
3) LAMONS METAL GASKET CO. - "SPIRASEAL" SPIRAL WOUND GASKET STYLE WR. METAL TO BE 316 STAINLESS STEEL WITH CUSHIONED CONSTRUCTION. ASBESTOS TO EXTEND BEYOND WIDTH OF METAL ON BOTH SIDES BY APPROXIMATELY 1/64". TOTAL THICKNESS OF GASKET TO BE .200 ± .005, "C" DIMENSION TO BE WIDTH OF METAL.
4) PARKER-HANNIFIN CORPORATION - "PARMITE" FILLED SPIROTALLIC SPIRAL WOUND GASKET STYLE P913. METAL TO BE 316 STAINLESS STEEL WITH CUSHIONED CONSTRUCTION. PARMITE OR ASBESTOS TO EXTEND BEYOND WIDTH OF METAL ON BOTH SIDES BY APPROXIMATELY 1/64". TOTAL THICKNESS OF GASKET TO BE .200 ± .005, "C" DIMENSION TO BE WIDTH OF METAL.

OBSOLETE
REPLACED BY
DWG. A010045A

| REV. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ADDED #07, 08 & 09 3/20/81 GKH | 2 | ADDED NOTE #3 KEL/JCS 12/12/84 | 3 | ADDED PARKER INFO. 4/2/85 MK | 4 | REMOVED ITEM #10 5/7/85 JRM | 5 | OBSOLETED [illegible] | | |

GOULDS PUMPS | PART GASKET - SPIRAL WOUND | DR. BY KEL | CK. BY | DRAWING A000473A | REV 5

CAT. ES-2
PAGE H-00,974A
SUPSD.REV. 1
DATE 12-17-84




MAX. TEMP. 800°F
MAX. TEST PRESSURE 1200 PSI

| ITEM NO. | "A" OD ± 1/32 | "B" ID ± 1/64 | "C" THK. | COMPRESSED THICKNESS | USED ON |
|---|---|---|---|---|---|
| 01 | 8-1/2 | 7-1/4 | .175 | .125-.135 | 7" 3700 |
| 02 | 10-11/16 | 9-9/16 | .175 | .125-.135 | 9" 3700 |
| 03 | 12-3/4 | 11-9/16 | .175 | .125-.135 | 11" 3700 M&S |
| 04 | 14-7/8 | 13-5/8 | .175 | .125-.135 | 3700 |
| 05 | 17-13/16 | 16-9/16 | .175 | .125-.135 | 3700 |
| 06 | 23-1/16 | 21-11/16 | .175 | .125-.135 | 3700 |
| 07 | 16-13/16 | 15-9/16 | .175 | .125-.135 | SYNFUEL |
| 08 | 22-9/16 | 21-5/16 | .175 | .125-.135 | SYNFUEL |
| 09 | 28-1/16 | 26-11/16 | .175 | .125-.135 | SYNFUEL |
| 10 | 7-7/8 | 7-7/32 | .175 | .125-.135 | 7" 3900 |
| 11 | 10-11/64 | 9-33/64 | .175 | .125-.135 | 9" 3900 |
| 12 | 12-3/16 | 11-17/32 | .175 | .125-.135 | 11" 3900 |
| 13 | 14-1/4 | 13-19/32 | .175 | .125-.135 | 13" 3900 |
| 14 | 17-3/16 | 16-17/32 | .175 | .125-.135 | 16" 3900 |

THESE GASKETS MUST CONFORM TO EITHER OF THE FOLLOWING SPECS:

1) FLEXITALLIC GASKET CO. - SPIRAL WOUND GASKET STYLE SPECIAL R WITH CUSHIONED CONSTRUCTION. ASBESTOS TO EXTEND BEYOND WIDTH OF METAL ON BOTH SIDES BY APPROXIMATELY 1/64". TOTAL THICKNESS OF GASKET TO BE .200 ± .005, "C" DIMENSION TO BE WIDTH OF METAL. METAL TO BE 316 STAINLESS STEEL.
2) JOHNS-MANVILLE PRODUCTS - "SPIROTALLIC" SPIRAL WOUND GASKET STYLE 911. METAL TO BE 316 STAINLESS STEEL WITH CUSHIONED CONSTRUCTION. ASBESTOS TO EXTEND BEYOND WIDTH OF METAL ON BOTH SIDES BY APPROXIMATELY 1/64". TOTAL THICKNESS OF GASKET TO BE .200 ± .005, "C" DIMENSION TO BE WIDTH OF METAL.
3) LAMONS METAL GASKET CO. - "SPIRASEAL" SPIRAL WOUND GASKET STYLE WR. METAL TO BE 316 STAINLESS STEEL WITH CUSHIONED CONSTRUCTION. ASBESTOS TO EXTEND BEYOND WIDTH OF METAL ON BOTH SIDES BY APPROXIMATELY 1/64". TOTAL THICKNESS OF GASKET TO BE .200 ± .005, "C" DIMENSION TO BE WIDTH OF METAL.

| REV. | | REV. | |
|---|---|---|---|
| 1 | ADDED #07, 08 & 09 3/20/81 GKH | 2 | ADDED NOTE #3 12/12/84 KEL/JCS |

GOULDS PUMPS Seneca Falls, N.Y.

PART: GASKET - SPIRAL WOUND

DR. BY KEL | CK. BY | APPROVED DATE 3/2/81

DRAWING A00947A

REV. 2

SHEET 1 OF 1

METAL PARTICLES, GRAPHITE, BINDER AND SPECIAL LONG FIBER ASBESTOS. TEMPERATURES TO 550°F.

SUPRSDS. REV 9
DATE 7-22-85

CRANE PACKING SUPER SEAL #1

| SUP NO. | I.D. | O.D. | CROSS SECTION | RINGS PER SET 1 | WHERE USED |
|---|---|---|---|---|---|
| 1 | 1-1/8 | 1-5/8 | 1/4 SQ. | 5 | 3655S, 3755S, 3169M |
| 2 | 1-5/8 | 2-3/8 | 3/8 " | 5 | 3169K, 3655M, 3755M, 3650K, 3750K |
| 3 | 2-1/4 | 3 | 3/8 " | 6 | 3655L, 3755L |
| ~~4~~ | 1-3/8 | 2 | 5/16 " | 10 | 3405S |
| ~~5~~ | 1-3/4 | 2-1/2 | 3/8 " | 10 | 3405M |
| ~~6~~ | 2-1/2 | 3-1/4 | 3/8 " | 12 | 3405L |
| ~~7~~ | 1-3/8 | 2 | 5/16 " | 5 | 3404S, 3169ST |
| ~~8~~ | 1-3/4 | 2-1/2 | 3/8 " | 5 | 3404M, 3196M |
| ~~9~~ | 2-1/2 | 3-1/4 | 3/8 " | 6 | 3404L |
| ~~10~~ | 1-1/8 | 1-3/4 | 5/16x1/4 | 5 | 3199T |
| 11 | 2 | 2-3/4 | 3/8 SQ. | 6 | 3735M, 3736M |
| ~~12~~ | 2-1/2 | 3-3/8 | 7/16 " | 6 | 3735L, 3736L |
| 13 | 1-3/8 | 2-1/8 | 3/8 " | 5 | 3345M |
| 14 | 1-1/4 | 2 | 3/8 " | 5 | 3196S |
| 15 | 1-3/4 | 2-1/2 | 3/8 " | 5 | 3196M (5 PCS FROM 54722 #5) |
| 16 | 1-3/4 | 2-1/2 | 3/8 " | 16 | 3405M (SPEC. LESS LANTERN RING) |
| ~~17~~ | 2-1/2 | 3-1/4 | 3/8 " | 16 | 3405M (SPEC. LESS LANTERN RING) |
| | | | | | |
| | | | | | |
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| | | | | | |
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| | | | | | |

APPROVED VENDORS:
CRANE PACKING CO. SUPER SEAL NO. 1

OBSOLETE
REPLACED BY
DWG. A01062A

| REV. | | | |
|---|---|---|---|
| 7 | REVISED & REDRAWN-SEE MICRO-FILM FOR PREVIOUS ISSUE 9-7-75 RDB | 10 | OBSOLETE [illegible] |

GOULDS PUMPS
Seneca Falls, N. Y.

PART: PACKING-SB

DR. BY: RDB | CK. BY: DER | APPVD | DATE: 2-17-75

DRAWING: 54722

REV: 10

CAT. ES-2
PAGE G-54.722
SUPRSDS REV. 7
DATE 7-2-75

DRY-GRAPHITIZED PLASTIC PACKING MANUFACTURED OF WHITE METAL PARTICLES, GRAPHITE, BINDER AND SPECIAL LONG FIBRE ASBESTOS. TEMPERATURES TO 550°F.

CRANE PACKING SUPER SEAL #1

| NO | I.D. | O.D. | CROSS SECTION | (1) RINGS PER SET | WHERE USED |
|---|---|---|---|---|---|
| 1 | 1-1/8 | 1-5/8 | 1/4 SQ | 5 | 3655, 3755S, 3169M |
| 2 | 1-5/8 | 2-3/8 | 3/8 SQ | 5 | 3169K, 3650K, 3750K, 3655M, 3755M |
| 3 | 2-1/4 | 3 | 3/8 SQ | 6 | 3655L, 3755L |
| 4 | 1-3/8 | 2 | 5/16 SQ | 10 | 3405S (USE 2 SETS OF 1/2 7) (2) |
| 5 | 1-3/4 | 2-1/2 | 3/8 SQ | 10 | 3405M (USE 2 SETS OF 1/2 8) (3) |
| 6 | 2-1/2 | 3-1/4 | 3/8 SQ | 12 | 3405L |
| 7 | 1-3/8 | 2 | 5/16 SQ | 5 | 3404S, 3196ST (5 PCS FROM 54722#4) |
| 8 | 1-3/4 | 2-1/2 | 3/8 SQ | 5 | 3404, 3169M (5 PCS FROM 54722#5) |
| 9 | 2-1/2 | 3-1/4 | 3/8 SQ | 6 | 3404L (6 PCS FROM 54722#6) |
| 10 | 1-1/8 | 1-3/4 | 5/16X1/4 | 5 | 3199T |
| 11 | 2 | 2-3/4 | 3/8 SQ | 6 | 3735M, 3736M |
| 12 | 2-1/2 | 3-3/8 | 7/16 SQ | 6 | 3735L, 3736L |
| 13 | 1-3/8 | 2-1/8 | 3/8 SQ | 5 | 3345M |
| 14 | 1-1/4 | 2 | 3/8 SQ | 5 | 3196S |
| 15 | 1-3/4 | 2-1/2 | 3/8 SQ | 5 | 3196M (5 PCS FROM 54722#5) |
| 16 | 1-3/4 | 2-1/2 | 3/8 SQ | 16 | 3405M (SPEC LESS LANTERN RING) |
| 17 | 2-1/2 | 3-1/4 | 3/8 SQ. | 16 | 3405L (SPEC LESS LANTERN RING) |

| | |
|---|---|
| MEX | |
| ARG | |
| BRAZIL | |
| | |
| | |
| STDS BOOK | X |
| G-VPD LUG. | |
| G-VPD L.A. | |
| DELMIT | |
| TECH. CENTER | 1 |
| PATT. SHOP | |
| TOOL DESIGN | 3 |
| PRINTS TO | |

APPROVED VENDORS:
CRANE PACKING CO. SUPER SEAL NO.1

| REV | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| (1) REDUCED ... PER ... | 7 | ITEM 17 ADDED 5-15-75 DER | 8 | (2) (3) ADDED 7-2-75 DER | | | | | | |

54722

PART: PACKING - S. B.
DR. BY: MEN | CK. BY: DER | APPVD | DATE: 2-17-75
DRAWING: 54722 | REV: 8
SHEET 1 of 1