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NAVY DEPARTMENT

L4/JJ-33(3) (SPG)

(Bureau of Supplies and Accounts)

Washington, D.C.

26 June 1936

Contract Bulletin

PACKINGS FOR THE NAVAL SERVICE
For the period 1 July 1936
to 30 June 1937

Issued by the Bureau of Supplies and Accounts
Navy Department

Copies to:

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VIII except (a), (h), (k), (l), IX(b) & X (C-9) (20)

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1. Following are the contracts and contract conditions for furnishing packings for the naval service during the fiscal year ending 30 June 1937.

2. APPROPRIATION AND REQUISITION:

(a) N.S.A. Bureau Requisition 8 (1937) NSAF. 15-X-1.

5. It is understood and agreed that only such unmanufactured articles, materials, and supplies as have been mined or produced in the United States and only such manufactured articles, materials and supplies as have been manufactured in the United States substantially all from articles, materials, or supplies mined, produced, or manufactured, as the case may be, in the United States shall be delivered pursuant to a contract awarded as a result of this bid, except as noted in special conditions.

4. PRICES HEREIN INCLUDE ANY FEDERAL TAX HERETOFORE IMPOSED BY THE CONGRESS WHICH IS APPLICABLE TO THE MATERIAL ON THIS BID. ANY SALES TAX, DUTIES, IMPOSTS, REVENUES, EXCISE OR OTHER TAXES WHICH MAY AFTER MAY 19, 1936 BE IMPOSED BY THE CONGRESS AND MADE APPLICABLE TO THE MATERIAL WILL BE CHARGED TO THE GOVERNMENT AND ENTERED ON INVOICES AS A SEPARATE ITEM.

5. "General Specifications for Inspection of Material," issued by the Navy Department, 1 September 1934, shall form a part of these specifications, copies of which, together with any Navy Standard or Federal Specification (if mentioned herein), may be obtained upon application to the Supply Officer of any navy yard, the Navy Purchasing Offices, New York, N.Y.; and San Francisco, Calif., or to the Bureau of Supplies and Accounts.

6. REPORT OF SHIPMENT: SPECIAL ATTENTION IS INVITED TO PARAGRAPH 61 OF "GENERAL SPECIFICATIONS FOR INSPECTION OF MATERIAL." WITHIN 48 HOURS AFTER SHIPMENT CONTRACTOR WILL FURNISH TO THE INSPECTOR A REPORT OF MATERIAL SHIPPED. IN CASE THE INSPECTION IS BEING CONDUCTED BY A BRANCH INSPECTION OFFICE THIS REPORT WILL BE FURNISHED TO THAT BRANCH OFFICE, UNLESS OTHERWISE DIRECTED.

7. METHOD OF ADVERTISEMENT:

Contracts were made after newspaper advertisement. Award was made to the lowest satisfactory bidder, and so reported to the General Accounting Office on Form 1036 attached to the several contracts. (Reference: Article 1045, Bureau of Supplies and Accounts Manual).

8. LIST OF CONTRACTORS:

49251 - Chicago, Ill.
49252 - New York, N.Y.
49253 - Philadelphia, Pa.
49254 - New York, N.Y.
49255 - Trenton, N.J.
49256 - Philadelphia, Pa.
49257 - New York, N.Y.
49258 - Trenton, N.J.
49259 - New York, N.Y.
49260 - Trenton, N.J.

9. CONTRACT PRICES AND DELIVERY POINTS:

Contract NOS-49245 - Crane Packing Company

	East Coast Unit Price (per pound)	Pacific Coast Unit Price (per pound)
(a) Packing, spiral, rod, high pressure, metallic, flexible, Symbol 1450, in sizes from 1/4 to 1-inch, as follows:		
Size (inches)		
1/4	\$.80	\$.82
5/16	.80	.82
3/8	.80	.82
7/16	.80	.82
1/2	.80	.82
9/16	.80	.82

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Size (inches)	East Coast Unit Price (per pound)	Pacific Coast Unit Price (per pound)
5/8	.80	.82
11/16	.80	.82
3/4	.80	.82
13/16	.80	.82
7/8	.80	.82
15/16	.80	.82
1	.80	.82

Packing in molded ring form.

For rods up to 1-1/2 inches diameter

1.00

1.02

For rods over 1-1/2 inches diameter

1.00

1.02

Trade Name - JOHN CRANE STYLE 100

(b) Packing, spiral, high pressure, plastic metallic, type D,
(metal case), symbol 1432, in sizes from 1/8 to 1-1/8 inches,
as follows:

Size (inches)	East Coast Unit Price (per pound)	Pacific Coast Unit Price (per pound)
1/8	1.26	1.28
3/16	1.26	1.28
1/4	1.26	1.28
5/16	1.26	1.28
3/8	1.26	1.28
7/16	1.26	1.28
1/2	1.26	1.28
9/16	1.26	1.28
5/8	1.26	1.28
11/16	1.26	1.28
3/4	1.26	1.28
13/16	1.26	1.28
7/8	1.26	1.28
15/16	1.26	1.28
1	1.26	1.28
1-1/8	1.26	1.28

Packing in molded ring form.

For rods up to 1-1/2 inches diameter

1.54

1.56

For rods over 1-1/2 inches diameter

1.48

1.50

Trade Name - JOHN CRANE STYLE 250

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	East Coast Unit Price (per pound)	Pacific Coast Unit Price (per pound)
(c) Packing, plastic metallic, coil form, extra covered, Type C, symbol 1434, in sizes from 5/8 inch to 1-1/8 inches as follows:		
Sizes (inches)		
5/8	\$.82	\$.84
7/16	.82	.84
1/2	.82	.84
9/16	.92	.94
5/8	.82	.84
11/16	.82	.84
3/4	.82	.84
13/16	.82	.84
7/8	.82	.84
15/16	.82	.84
1	.82	.84
1-1/8	.82	.84

Packing, in, molded ring form.		
For rods up to 1-1/2 inches diameter	1.07	1.09
For rods over 1-1/2 inches diameter	1.02	1.04
Trade Name: "JOHN CRANE" STYLE 150		

(d) Packing, Condenser, tube, flexible, metallic, symbol 1435, as follows:		
Metal rings -		
Inside diameter (inch)		
5/8 (120,000 rings)	\$.53	
3/4 (40,000 rings)	.53	
7/8 (10,000 rings)	.48	
odd sizes	.46	
Fiber rings -		
5/8 (140,000 rings)	5.42	
3/4 (40,000 rings)	5.39	
7/8 (6,000 rings)	5.25	
odd sizes	5.10	

Packing, condenser tube, flexible metallic, symbol 1435, as follows:		
Metal rings -		
Inside diameter (inch)		
5/8 (180,000 rings)		.54

CONT'D.

	East Coast Unit Price (per pound)	Pacific Coast Unit Price (per pound)
3/4 (12,000 rings)		.54
7/8 (6,000 rings)		.49
odd sizes		.47
Fiber, rings-		
5/8 (180,000 rings)		5.44
3/4 (12,000 rings)		5.41
7/8 (6,000 rings)		5.27
odd sizes		5.12

Trade Name "JOHN CRANE" STYLES 601-E and 602

(a) Packing, spiral, high pressure, metallic, flexible, for stern tubes, in sizes from 5/8-inch to 1-1/2-inches, as follows:

Size (inches)	East Coast Unit Price (per pound)	Pacific Coast Unit Price (per pound)
5/8	\$1.05	\$1.07
3/4	1.05	1.07
7/8	1.05	1.07
1	1.05	1.07
1-1/8	1.05	1.07
1-1/4	.95	.95
1-1/2	.95	.95
1-3/4	.95	.95
2	.95	.95
2-1/4	.95	.95
2-1/2	.95	.95
2-3/4	.95	.95
3	.95	.95
3-1/4	.95	.95
3-1/2	.95	.95
3-3/4	.95	.95
4	.95	.95
4-1/4	.95	.95
4-1/2	.95	.95
4-3/4	.95	.95
5	.95	.95
5-1/4	.95	.95
5-1/2	.95	.95
5-3/4	.95	.95
6	.95	.95
6-1/4	.95	.95
6-1/2	.95	.95
6-3/4	.95	.95
7	.95	.95
7-1/4	.95	.95
7-1/2	.95	.95
7-3/4	.95	.95
8	.95	.95
8-1/4	.95	.95
8-1/2	.95	.95
8-3/4	.95	.95
9	.95	.95
9-1/4	.95	.95
9-1/2	.95	.95
9-3/4	.95	.95
10	.95	.95
10-1/4	.95	.95
10-1/2	.95	.95
10-3/4	.95	.95
11	.95	.95
11-1/4	.95	.95
11-1/2	.95	.95
11-3/4	.95	.95
12	.95	.95
12-1/4	.95	.95
12-1/2	.95	.95
12-3/4	.95	.95
13	.95	.95
13-1/4	.95	.95
13-1/2	.95	.95
13-3/4	.95	.95
14	.95	.95
14-1/4	.95	.95
14-1/2	.95	.95
14-3/4	.95	.95
15	.95	.95
15-1/4	.95	.95
15-1/2	.95	.95
15-3/4	.95	.95
16	.95	.95
16-1/4	.95	.95
16-1/2	.95	.95
16-3/4	.95	.95
17	.95	.95
17-1/4	.95	.95
17-1/2	.95	.95
17-3/4	.95	.95
18	.95	.95
18-1/4	.95	.95
18-1/2	.95	.95
18-3/4	.95	.95
19	.95	.95
19-1/4	.95	.95
19-1/2	.95	.95
19-3/4	.95	.95
20	.95	.95
20-1/4	.95	.95
20-1/2	.95	.95
20-3/4	.95	.95
21	.95	.95
21-1/4	.95	.95
21-1/2	.95	.95
21-3/4	.95	.95
22	.95	.95
22-1/4	.95	.95
22-1/2	.95	.95
22-3/4	.95	.95
23	.95	.95
23-1/4	.95	.95
23-1/2	.95	.95
23-3/4	.95	.95
24	.95	.95
24-1/4	.95	.95
24-1/2	.95	.95
24-3/4	.95	.95
25	.95	.95
25-1/4	.95	.95
25-1/2	.95	.95
25-3/4	.95	.95
26	.95	.95
26-1/4	.95	.95
26-1/2	.95	.95
26-3/4	.95	.95
27	.95	.95
27-1/4	.95	.95
27-1/2	.95	.95
27-3/4	.95	.95
28	.95	.95
28-1/4	.95	.95
28-1/2	.95	.95
28-3/4	.95	.95
29	.95	.95
29-1/4	.95	.95
29-1/2	.95	.95
29-3/4	.95	.95
30	.95	.95
30-1/4	.95	.95
30-1/2	.95	.95
30-3/4	.95	.95
31	.95	.95
31-1/4	.95	.95
31-1/2	.95	.95
31-3/4	.95	.95
32	.95	.95
32-1/4	.95	.95
32-1/2	.95	.95
32-3/4	.95	.95
33	.95	.95
33-1/4	.95	.95
33-1/2	.95	.95
33-3/4	.95	.95
34	.95	.95
34-1/4	.95	.95
34-1/2	.95	.95
34-3/4	.95	.95
35	.95	.95
35-1/4	.95	.95
35-1/2	.95	.95
35-3/4	.95	.95
36	.95	.95
36-1/4	.95	.95
36-1/2	.95	.95
36-3/4	.95	.95
37	.95	.95
37-1/4	.95	.95
37-1/2	.95	.95
37-3/4	.95	.95
38	.95	.95
38-1/4	.95	.95
38-1/2	.95	.95
38-3/4	.95	.95
39	.95	.95
39-1/4	.95	.95
39-1/2	.95	.95
39-3/4	.95	.95
40	.95	.95
40-1/4	.95	.95
40-1/2	.95	.95
40-3/4	.95	.95
41	.95	.95
41-1/4	.95	.95
41-1/2	.95	.95
41-3/4	.95	.95
42	.95	.95
42-1/4	.95	.95
42-1/2	.95	.95
42-3/4	.95	.95
43	.95	.95
43-1/4	.95	.95
43-1/2	.95	.95
43-3/4	.95	.95
44	.95	.95
44-1/4	.95	.95
44-1/2	.95	.95
44-3/4	.95	.95
45	.95	.95
45-1/4	.95	.95
45-1/2	.95	.95
45-3/4	.95	.95
46	.95	.95
46-1/4	.95	.95
46-1/2	.95	.95
46-3/4	.95	.95
47	.95	.95
47-1/4	.95	.95
47-1/2	.95	.95
47-3/4	.95	.95
48	.95	.95
48-1/4	.95	.95
48-1/2	.95	.95
48-3/4	.95	.95
49	.95	.95
49-1/4	.95	.95
49-1/2	.95	.95
49-3/4	.95	.95
50	.95	.95
50-1/4	.95	.95
50-1/2	.95	.95
50-3/4	.95	.95
51	.95	.95
51-1/4	.95	.95
51-1/2	.95	.95
51-3/4	.95	.95
52	.95	.95
52-1/4	.95	.95
52-1/2	.95	.95
52-3/4	.95	.95
53	.95	.95
53-1/4	.95	.95
53-1/2	.95	.95
53-3/4	.95	.95
54	.95	.95
54-1/4	.95	.95
54-1/2	.95	.95
54-3/4	.95	.95
55	.95	.95
55-1/4	.95	.95
55-1/2	.95	.95
55-3/4	.95	.95
56	.95	.95
56-1/4	.95	.95
56-1/2	.95	.95
56-3/4	.95	.95
57	.95	.95
57-1/4	.95	.95
57-1/2	.95	.95
57-3/4	.95	.95
58	.95	.95
58-1/4	.95	.95
58-1/2	.95	.95
58-3/4	.95	.95
59	.95	.95
59-1/4	.95	.95
59-1/2	.95	.95
59-3/4	.95	.95
60	.95	.95
60-1/4	.95	.95
60-1/2	.95	.95
60-3/4	.95	.95
61	.95	.95
61-1/4	.95	.95
61-1/2	.95	.95
61-3/4	.95	.95
62	.95	.95
62-1/4	.95	.95
62-1/2	.95	.95
62-3/4	.95	.95
63	.95	.95
63-1/4	.95	.95
63-1/2	.95	.95
63-3/4	.95	.95
64	.95	.95
64-1/4	.95	.95
64-1/2	.95	.95
64-3/4	.95	.95
65	.95	.95
65-1/4	.95	.95
65-1/2	.95	.95
65-3/4	.95	.95
66	.95	.95
66-1/4	.95	.95
66-1/2	.95	.95
66-3/4	.95	.95
67	.95	.95
67-1/4	.95	.95
67-1/2	.95	.95
67-3/4	.95	.95
68	.95	.95
68-1/4	.95	.95
68-1/2	.95	.95
68-3/4	.95	.95
69	.95	.95
69-1/4	.95	.95
69-1/2	.95	.95
69-3/4	.95	.95
70	.95	.95
70-1/4	.95	.95
70-1/2	.95	.95
70-3/4	.95	.95
71	.95	.95
71-1/4	.95	.95
71-1/2	.95	.95
71-3/4	.95	.95
72	.95	.95
72-1/4	.95	.95
72-1/2	.95	.95
72-3/4	.95	.95
73	.95	.95
73-1/4	.95	.95
73-1/2	.95	.95
73-3/4	.95	.95
74	.95	.95
74-1/4	.95	.95
74-1/2	.95	.95
74-3/4	.95	.95
75	.95	.95
75-1/4	.95	.95
75-1/2	.95	.95
75-3/4	.95	.95
76	.95	.95
76-1/4	.95	.95
76-1/2	.95	.95
76-3/4	.95	.95
77	.95	.95
77-1/4	.95	.95
77-1/2	.95	.95
77-3/4	.95	.95
78	.95	.95
78-1/4	.95	.95
78-1/2	.95	.95
78-3/4	.95	.95
79	.95	.95
79-1/4	.95	.95
79-1/2	.95	.95
79-3/4	.95	.95
80	.95	.95
80-1/4	.95	.95
80-1/2	.95	.95
80-3/4	.95	.95
81	.95	.95
81-1/4	.95	.95
81-1/2	.95	.95
81-3/4	.95	.95
82	.95	.95
82-1/4	.95	.95
82-1/2	.95	.95
82-3/4	.95	.95
83	.95	.95
83-1/4	.95	.95
83-1/2	.95	.95
83-3/4	.95	.95
84	.95	.95
84-1/4	.95	.95
84-1/2	.95	.95
84-3/4	.95	.95
85	.95	.95
85-1/4	.95	.95
85-1/2	.95	.95
85-3/4	.95	.95
86	.95	.95
86-1/4	.95	.95
86-1/2	.95	.95
86-3/4	.95	.95
87	.95	.95
87-1/4	.95	.95
87-1/2	.95	.95
87-3/4	.95	.95
88	.95	.95
88-1/4	.95	.95
88-1/2	.95	.95
88-3/4	.95	.95
89	.95	.95
89-1/4	.95	.95
89-1/2	.95	.95
89-3/4	.95	.95
90	.95	.95
90-1/4	.95	.95
90-1/2	.95	.95
90-3/4	.95	.95
91	.95	.95
91-1/4	.95	.95
91-1/2	.95	.95
91-3/4	.95	.95
92	.95	.95
92-1/4	.95	.95
92-1/2	.95	.95
92-3/4	.95	.95
93	.95	.95
93-1/4	.95	.95
93-1/2	.95	.95
93-3/4	.95	.95
94	.95	.95
94-1/4	.95	.95
94-1/2	.95	.95
94-3/4	.95	.95
95	.95	.95
95-1/4	.95	.95
95-1/2	.95	.95
95-3/4	.95	.95
96	.95	.95
96-1/4	.95	.95
96-1/2	.95	.95
96-3/4	.95	.95
97	.95	.95
97-1/4	.95	.95
97-1/2	.95	.95
97-3/4	.95	.95
98	.95	.95
98-1/4	.95	.95
98-1/2	.95	.95
98-3/4	.95	.95
99	.95	.95
99-1/4	.95	.95
99-1/2	.95	.95
99-3/4	.95	.95
100	.95	.95
100-1/4	.95	.95
100-1/2	.95	.95
100-3/4	.95	.95
101	.95	.95
101-1/4	.95	.95
101-1/2	.95	.95
101-3/4	.95	.95
102	.95	.95
102-1/4	.95	.95
102-1/2	.95	.95
102-3/4	.95	.95
103	.95	.95
103-1/4	.95	.95
103-1/2	.95	.95
103-3/4	.95	.95
104	.95	.95
104-1/4	.95	.95
104-1/2	.95	.95
104-3/4	.95	.95
105	.95	.95
105-1/4	.95	.95
105-1/2	.95	.95
105-3/4	.95	.95
106	.95	.95
106-1/4	.95	

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Molded ring form
For rods up to 1-1/2 inches diameter
For rods over 1-1/2 inches diameter

Trade Name - ALLPAX

(b) Packing, plastic metallic, coil form, cotton covered, symbol 1433, in sizes from 3/16-inch to 1-1/4 inches, as follows:

Size (inches)	Unit Price (per pound)	Unit Price (per pound)
3/16	1.10	1.10
1/4	1.10	1.10
5/16	1.10	1.10
3/8	1.10	1.10
7/16	1.10	1.10
1/2	1.10	1.10
5/8	1.10	1.10
3/4	1.10	1.10
7/8	1.10	1.10
1	1.10	1.10
1-1/8	1.10	1.10
1-1/4	1.10	1.10

For rods up to 1-1/2 inches diameter
For rods over 1-1/2 inches diameter

Trade Name - ALLPAX

Contract No. 49247 - The Anchor Packing Co.

(a) Packing, spiral asbestos, rod, high-pressure, symbol 1100, in sizes from 1/4 to 1-1/2 inch, as required, as follows:

Size (inches)	Unit Price (per pound)	Unit Price (per pound)
1/4	.457	.468
5/16	.453	.464
3/8	.453	.464
7/16	.453	.464
1/2	.408	.419
9/16	.387	.398
5/8	.387	.398
3/4	.362	.373
7/8	.362	.373
1	.362	.373
1-1/8	.362	.373
1-1/4	.362	.373
1-3/8	.362	.373
1-1/2	.362	.373

CRMC-M&S-003522

SUT0018

1473

Trade Name - Ankerite High Pressure Style 1929

East Coast
Unit Price
(per pound)

Pacific
Unit Price
(per pound)

(b) Packing, valve-seat, asbestos, type B, braided, or type D, twisted, as ordered, symbol 1101, in sizes from 1/8 to 1/2 inch, as follows:

Size
(inches)

1/8

.581

.591

3/16

.567

.577

1/4

.542

.552

5/16

.539

.549

3/8

.536

.546

7/16

.535

.545

1/2

.534

.544

Trade Name - Ankerite Valve Seat
Style 515 Braided
Style 515 Twisted

East Coast
(Unit Price)
(per sq.-yd.)

Pacific Coast
Unit Price
(per sq.-yd.)

(c) Packing, valve-seat, asbestos, metallic cloth, symbol 2151, in sizes as follows:

Thickness
(inches)

1/16

11.28

1.35

1/8

2.58

2.68

3/16

3.88

3.98

1/4

5.24

5.34

(d) Packing, valve-seat, square, symbol 1250, in sizes from 1/8 to 1/2 inch, as follows:

Size
(inches)

1/8

.0165

.0168

3/16

.0529

.0537

1/4

.0495

.0495

5/16

.0824

.0844

3/8

.0923

.0948

7/16

.1295

.1331

1/2

.1517

.1569

9/16

.1946

.2008

5/8

.2368

.2437

3/4

.3402

.3501

7/8

.4444

.4561

1

.5408

.5574

(Cont'd)

	Per linear Yard	Per linear yard
1-1/8	.6927	.7140
1-1/4	.7820	.861
1-1/2	1.1172	1.1516
1-3/4	1.3407	1.3329
2	1.5194	1.5662
	(Per sq. Yd)	(Per sq. yd)

(e) Packing, sheet, fiber, plant, symbol 2290, as required

Thickness (inch)		
1/64	.13	.14
1/32	.26	.28
1/16	.45	.48
1/8	.97	1.05

Identification: Each sheet shall be stenciled in such a manner that at least every square foot of packing can be identified by its trade name and the name of the manufacturer at the end of three years in stock.

Trade Name - ANKORITE FIBER SHEET

(f) Packing, rod, plastic, non-metallic, symbol 1105, bulk, (per pound) (per pound)

In 5 pound cans	.76	.78
For rods up to 1/2 inch diameter	.76	.78
	.76	.78

(g) Packing, plastic non-metallic, coil form, cotton covered, symbol 1106, in sizes from 1/4 inch to 1-1/4 inches as follows:

Size (inches)		
1/4	.80	.82
5/16	.80	.82
3/8	.80	.82
1/2	.80	.82
5/8	.80	.82
3/4	.80	.82
7/8	.80	.82
1	.80	.82
1-1/8	.80	.82
1-1/4	.80	.82

Packing in molded ring form -

For rods up to 1-1/2 inches diameter	.80	.82
For rods over 1-1/2 inches diameter	.80	.82

Trade Name - Carbonite Coil Form Cotton Jacket

Contract NOS-49248 - Johns-Manville Sales Corp.

East Coast
Unit Price
(per sq. Yd.)

Pacific Coast
Unit Price
(per sq. Yd.)

(a) Packing sheet, asbestos, compressed, symbol 2150, Grade A, in commercial widths and thicknesses from 1/32 inch up as follows:

Size (inch)	East Coast Unit Price (per sq. Yd.)	Pacific Coast Unit Price (per sq. Yd.)
1/32	.3428	.3604
1/16	.6855	.7196
1/8	1.3666	1.4391
5/16	2.0493	2.1537
1/4	2.7531	2.9782

Crude rubber and asbestos of foreign origin. No commercial production in the United States.

Trade Name: Johns-Manville Navy Specification Compressed Asbestos Sheet

Contract NOS-49249 - The Parlock Packing Co.

(per pound)

(per pound)

(c) Packing, spiral gland, low-pressure, symbol 1500, in sizes from 1/4 to 1 inch square or rectangular in section, as follows:

Size (inches)	East Coast Unit Price (per pound)	Pacific Coast Unit Price (per pound)
1/4	.39	.41
5/16	.39	.41
3/8	.39	.41
1/2	.39	.41
5/8	.39	.41
3/4	.39	.41
7/8	.39	.41
1	.39	.41

(b) Packing, coil, truck's square, symbol 1501, in sizes of 1/4 to 1 1/2 inches as follows:

Size (inches)	East Coast Unit Price (per pound)	Pacific Coast Unit Price (per pound)
1/4	.40	.40
5/16	.40	.40
3/8	.40	.40
7/16	.40	.40
1/2	.40	.40
5/8	.40	.40
3/4	.40	.40

(Continued)

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Contract Nos-49248 Cont'd.

7/8	.40
1	.40
1-1/8	.40
1-1/4	.40

Contract Nos-49250 - Hamilton Rubber Mfg. Co.

(a) Packing, coil, truck's square, symbol 1501, in sizes of 1/4 to 1-1/4 inches as follows:	East Coast Unit Price (per pound)	Pacific Coast Unit Price (per pound)
Size (inches)		
1/4	.58	
5/16	.58	
3/8	.58	
7/16	.58	
1/2	.58	
9/16	.58	
5/8	.58	
3/4	.58	
7/8	.58	
1	.58	
1-1/8	.58	
1-1/4	.58	
	(per sq. yd.)	(per sq. yd.)

(b) Packing, sheet, rubber, wire insertion, symbol 2554, in commercial widths and thicknesses, as follows:

Size (inches)	East Coast Unit Price (per sq. yd.)	Pacific Coast Unit Price (per sq. yd.)
1/16	2.06	
3/32	2.25	
1/8	5.66	
5/16	5.72	
3/4	7.55	

Contract Nos-49251 - Quaker City Rubber Co.

(i) Packing, (truck's rock hard), symbol 1503, in coils or rings to sizes (in solid ring or formed ring) as ordered	East Coast Unit Price (per pound)	Pacific Coast Unit Price (per pound)
Trade Name - Style - Specification		
(b) Packing, sheet, rubber, wire insertion, symbol 2554, in commercial widths and thicknesses, as follows:		
Size (inches)		
1/16		\$2.09
3/32		2.41

Cont'd.

Contract 49251 CONT'D

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East Coast
Price
(per sq.-yd.)

Pacific Coast
Price
(per sq.-yd.)

1/8

5.87

3/16

6.15

1/4

9.65

Contract NOS-49252 - United States Rubber Products, Inc.

(a) Packing, sheet, rubber, cloth-insertion, Grade No. 1, symbol 2555, in commercial widths and thicknesses, as follows:

(per sq.-yd.)

Size
(inches)

1/16

\$.72

3/32

1.12

1/8

1.40

5/16

2.09

7/8

2.87

Contract NOS-49253 - Harwood Rubber Co.

(a) Packing, sheet, rubber, cloth-insertion, Grade 1, symbol 2555, in commercial widths and thicknesses, as follows:

Size
(inches)

1/16

5.79

3/32

6.18

1/8

9.12

5/16

2.80

Contract NOS-49254 - H.S. Flitz Gibbon & Co. Inc.

(per pound)

(per pound)

(a) Packing, spiral, rod, high pressure, seal-metallic, symbol 1400, in sizes from 1/4 to 1 inch, as follows:

Size
(inches)

1/4

1.10

1.15

5/16

1.10

1.15

3/8

1.10

1.15

7/16

1.10

1.15

1/2

1.10

1.15

9/16

1.10

1.15

5/8

1.10

1.15

11/16

1.10

1.15

3/4

1.10

1.15

13/16

1.10

1.15

7/8

1.10

1.15

15/16

1.10

1.15

1

1.10

1.15

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CONTRACT NO. 49254 Contin.

East Coast Unit Price (per pound)	Pacific Coast Unit Price (per pound)
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Packing in molded ring form-

For rods up to 1-1/2 inches diameter

1.35	1.40
------	------

For rods over 1-1/2 inches diameter

1.35	1.40
------	------

Trade Name - Victor Semi-Metallic Packing

Contract NOs-49255 - Elvet Magnesia Mfg. Co.

(a) Packing, asbestos, rod, square braided, Type A, plain, symbol 1105, or Type B, with wire insertion, symbol 1104, ordered in sizes from 1/8 to 1 inch square in section, as follows:

Size (inches)

1/8

.23	.30
-----	-----

1/4

.28	.30
-----	-----

3/8

.28	.30
-----	-----

1/2

.28	.30
-----	-----

5/8

.28	.30
-----	-----

3/4

.28	.30
-----	-----

7/8

.23	.30
-----	-----

SPECIAL CONDITIONS

I. DISCOUNTS will be allowed for payment within calendar days as follows:

(a) Contract Nos-	10 days
49245	2%
49246	2%
49247	2%
49248	2%
49249	2%
49250	2% 10th proximo
49251	2% 10th proximo
49252	No discount offered
49253	2% 10th proximo
49254	2%
49255	2%

II. EXCEPTIONS:

(a) Contract Nos-49249:

Material covered in United States from cotton grown in United States and rubber grown in Dutch East Indies. No rubber grown in United States sufficient to constitute any substantial portion thereof.

(b) Contract Nos-49253:

Material to be furnished on this contract to be manufactured from materials mined, manufactured or produced in the United States except for the crude rubber used. No suitable commercial production of these products in the United States.

Material to be furnished on this contract to be inspected by Inspector of Naval Material Inspecting

Contract Nos.	Location of Manufactured Stock	Inspection Station
49245	Chicago, Illinois	I.N.M. Chicago
49246	Hammock, N.Y.	I.N.M. New York
49247	Marble, Pa. (All lots except 56 & 57)	I.N.M. Phila. Pa.
49248	Elkhart, Ind. (Lots 56 & 57)	I.N.M. Chicago
49249	Hanville, N.J.	I.N.M. New York
49250	Palmyra, N. Y.	I.N.M. Pittsburgh
49251	Trenton, N. J.	I.N.M. Phila. Pa.
49252	Wilmington, Phila. Pa.	I.N.M. Phila. Pa.
49253	New York City, N. Y.	I.N.M. New York
49254	Trenton, N. J.	I.N.M. Phila. Pa.
49255	New York City, N. Y.	I.N.M. New York
	Valley Forge, Penna	I.N.M. Phila. Pa.

GENERAL CONDITIONS.

I. ORDERS:

Orders will be placed by the Supply Officer or Officer-in-Charge of the activity concerned.

II. DELIVERIES:

(a) Delivery to be in accordance with the Conditions Governing Delivery of Supplies to the Navy.

(b) Deliveries to the navy yards and stations in the East may be required to be made to the following places:

to the Supply Officers at the Navy Yards, PORTSMOUTH, N.H. (Kittery, Me.), BOSTON (Charlestown) MASS., BROOKLYN, N.Y., PHILADELPHIA, PA., WASHINGTON, D.C., NORFOLK (Portsmouth) VA., and CHARLESTON, S.C., Naval Torpedo Station, NEWPORT, R.I., Submarine Base, SUBMARINE BASE, CONN., Naval Powder Factory, INDIAN HEAD, MD., Naval Proving Ground, DAHLGREN, VA., Naval Academy, ANNAPOLIS, MD., Naval Air Station, PENSACOLA (Verrington) FLA., and Officer-in-Charge, Naval Supply Depot, Naval Operating Base, SEWALL'S POINT, VA.

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(c) Delivery to the navy yards and stations on the Pacific Coast may be required to be made to the following places:

To the Officer-in-Charge, Naval Supply Depot, SAN DIEGO, CALIF., and to the Supply Officers at the Navy Yards, HARE ISLAND, CALIF., and PUGET SOUND (Bremerton) WASH.

(d) Delivery to East Coast points is to be made within 30 days and to Pacific Coast points within 45 days from receipt of order, in any desired quantity not exceeding 10 per cent of the estimated quantity under any one order. All contracts provide for delivery, all transportation charges paid, to the places named.

III. ESTIMATES OF QUANTITIES-DURATION OF CONTRACT

(a) The uncertain and varying needs of the Navy make it impossible to determine the quantity or quantities of the articles and materials described herein that may be required during the period from July 1, 1936, to June 30, 1937. Estimated quantities are stated for information only. It is mutually understood and agreed that the Government will order and the contractor will deliver the quantities of the kinds of articles and materials described in the specifications that in the judgment of the ordering officer may be required during the contract period, except as may be otherwise indicated in the bid. These supplies will be ordered from time to time during the life of the contract in such quantities for delivery in such forms and to such places provided for by the contract as the needs of the Naval service require. Bids made with the proviso that the total deliveries will not exceed a certain specified quantity will be considered, but the right is reserved to reject any bid which provides that the Government shall guarantee to take any definite quantity.

(b) The prices quoted are to be for delivery at the places named.

(c) Unless otherwise specified, deliveries will be made in standard packages or containers which will prevent deterioration and damage due to ordinary handling, transportation, and storage. Each container and package will be labeled with the maker's name, full trade name of packing, and date. All packages and containers will be stenciled or otherwise clearly labeled in large type, "Avoid heat or moisture until used." Sheet packing will be delivered in rolls not exceeding about 100 pounds net, except when specially authorized, and all packages of rod packings must show the length and net weight of packing contained.

The various types of packing, and specifications with which the packing shall comply with, are itemized in the following table.

	Symbol No. (Note 1)	Navy Department Specification	Date	Practical Reduced (Note 2)
Asbestos High Pressure Rod	1100	33-P-16a	8/1/35	Yes
Asbestos Valve Stem	1101	33-P-14a	6/1/31	Yes
Square Braided Asbestos Rod, Type A (Note 3)	1103	33-P-26	7/1/35	No
Square Braided Asbestos Rod, Type B (Note 3)	1104	33-P-26	7/1/35	No
Plastic Non-Metallic Rod, Type A, Class II	1105	33-P-25a	2/1/33	Yes
Plastic Non-Metallic Rod, Type B, Class II	1106	33-P-25a	2/1/33	Yes
Flax Rod	1260	33-P-17	7/1/33	No
Low Pressure, Spiral Gland	1300	33-P-12b	7/1/33	No
Tucks Square (Note 4)	1501	33-P-7e	7/1/33	No
Tucks Rod Hard (Note 5)	1503	33-P-7e	7/1/33	No
Semi-Metallic Rod	1400	33-P-19b	5/1/34	Yes
Flexible Metallic Rod	1430	33-P-17b	1/2/34	Yes
Plastic Metallic Rod, Type A, Class I	1431	33-P-25a	2/1/33	Yes
Plastic Metallic Rod, Type D, Class I	1432	33-P-25a	2/1/33	Yes
Plastic Metallic Rod, Type B, Class I	1433	33-P-25a	2/1/33	Yes
Plastic Metallic Rod, Type C, Class I	1434	33-P-25a	2/1/33	Yes
Flexible Metallic Condenser Tube (Note 6)	1435	33-P-15a	5/1/35	Yes
Compressed Asbestos Sheet	2150	33-P-13b	11/1/32	Yes
Asbestos Metallic Cloth Sheet	2151	33-P-2e	3/1/33	No
Plant Fibre Sheet	2290	33-P-22	6/1/29	Yes
Rubber Sheet, Cloth Insertion	2353	33-P-8a	5/1/33	NK
Rubber Sheet, Wire Insertion	2354	33-P-10c	4/1/33	No
Flexible Metallic for Stern Tubes	---	(Note 7)	---	Yes

(NOTE 1) The Symbol numbers shown are for Naval identification purposes. For all rod packings, the symbol number shall be printed or stamped on the label of each package; for all sheet packing the symbol number shall be branded on the sheet.

(NOTE 2) Award under items subject to specifications and practical test is made from a list of acceptable brands of packing, the quality of which has been proved to the satisfaction of the Navy Department, by test or by actual use in service as noted in another paragraph of the schedule headed "Acceptable Packings." Award of certain rod packings will be made to the bidder whose packings show the lowest cost per hour of service, as noted in another paragraph of the schedule headed "Awards."

(NOTE 3) Except that Paragraph H-2 shall be omitted, shall comply in all respects with "Specification 33-P-26".

(NOTE 4) Delete Paragraph D-1 of "Specification 33-P-7e" and substitute the following: - "Slab stock shall be built up of layers of frictioned cotton fabric laid on a bias. There shall be 24 to 39 layers of frictioned fabric per inch thickness of finished packing".

(NOTE 5) The flexibility test required by Paragraph D-4 of "Specification 33-P-7e" is not required on Rock Hard Tucks Packing. All other specified tests will be made on samples taken before the packing has been vulcanized rock hard.

(NOTE 6) "Specification 33-P-15a", shall comply except as follows: Delete the word "babbit" in Paragraph E-1a and substitute the word "lead". Delete the table in Paragraph E-1a and substitute the following:

Size			Weight per 1,000 rings	
Inside Diameter (inch)	Outside Diameter (inches)	Length (inch)	Minimum (pounds)	Maximum (pounds)
5/8	25/32	5/16	16.00	16.50
3/4	29/32	5/16	19.25	19.75
7/8	1-1/32	5/16	23.65	24.15
1	1-5/32	5/16	24.75	25.25

(NOTE 7) Packing shall be made of asbestos or ribbons, wrapped concentrically around a flax core. In the finished packing the shell shall be of brass 5/32 inch and not more than 1/8-in. of metal completely surrounding the core. The flax core shall be lubricated with pure and refined tallow, free from rancidity, completely impregnated throughout. The finished packing shall be lubricated with a mixture of graphite and standard cylinder oil.

V. ACCEPTABLE PACKINGS:

For asbestos high-pressure rod, asbestos valve stem, compressed asbestos fiber, plant fiber sheet, semi-metallic rod, flexible metallic rod packings, flexible metallic for stern tubes, plastic rod packing, and flexible metallic packing for condenser tubes, the following will apply:

The right is reserved to reject any bids on brands of packing, as specified above, which have not been subjected to the required tests and found satisfactory. The attention of manufacturers is called to this requirement, and they are urged to forward samples of the article which they propose to offer to the Navy in the future in order that test may be made. These tests will be conducted at the expense of the manufacturers. Information with reference to the expense involved and as to where the samples should be sent will be supplied upon application to the Bureau of Supplies and Accounts. It is understood that the manufacturer shall pay all transportation charges to and from the point where tests are made.

In case of failure of the sample to prove satisfactory, consideration will be given to the requests of the manufacturer for additional tests only after it has been clearly shown that changes have been made in the product with reference to design, method of manufacture, etc., which the Bureau concerned considers sufficient to warrant conducting such additional tests.

New tests cannot be made on those lots covering high-pressure spiral rod, valve stem, compressed asbestos fiber, plant fiber sheet, semi-metallic rod, flexible metallic rod, flexible metallic for stern tubes, plastic rod and flexible metallic for condenser tube packings before making award, as tests require from 8 to 10 months time.

VI. QUANTITY-PURCHASE ON ACCOUNT:

The contractor shall agree that each delivery of packings will be satisfactory in every respect and entirely suitable for the special requirements of the naval service. In case packings are rejected as not satisfactory, or in case packings are shown to be unsatisfactory, or not suitable in every respect for the special purposes required, the Government shall have the right, at its option, either to require the contractor to replace, free of charge, an equal quantity of satisfactory packing or to require him to refund the purchase price of the unsuitable delivery. In case the contractor fails to fulfill, in a satisfactory manner, the conditions of the contract in every respect, the right is further reserved to purchase in the open market for the contractor's account such packings which may still be due to be delivered during the contract period.

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VII. CANCELLATION OF CONTRACT:

The right is reserved to cancel any contract, at the option of the Government, for any or all yards, for any or all packings included therein, and at any time during the existence of the contract, upon 30 days notice to the contractor, if, to the interests of the Government to do so.

Failure to make deliveries as specified, or to answer inquiries with regard to orders placed under a contract, will be considered sufficient cause for cancellation of a contract. It will be clearly understood that when actual use in service of packings delivered shows that the contractor is evidently supplying unsatisfactory packings or that deliveries have been made of materials inferior to those specified or inferior to samples previously submitted and found acceptable, all such unsatisfactory packings as remain on hand unused may be returned to the contractor at his expense.

VIII. DELIVERIES:

All material for Naval Torpedo Station, Newport, R.I., shall be delivered to any freight depot in Newport, R.I., consigned to the Supply Officer, Naval Torpedo Station, NEWPORT, R.I.

Deliveries for the Navy Yard, Brooklyn, N. Y., shall be made as follows:

Shipments via water carriers shall be consigned to Supply Officer, Building No. 3, Navy Yard, Brooklyn, N.Y. Drayage charges are assessed from steamship dock in Port of New York and drayage services must be arranged for and payment made by contractors.

Shipments via rail carriers, whether in carload or less than carload lots, should be consigned to Supply Officer, Building No. 3, Navy Yard, Brooklyn, N.Y., via Market Terminal, Wallabout, Brooklyn, N. Y., Brooklyn Eastern District Terminal. For less than carload lots drayage services must be arranged for and payment made by contractors.

All material for Dahlgren, Va., shall be delivered to WHITE PLAINS, MD., Indian Head Siding, marked "For Supply Officer, Naval Proving Ground, DAHLGREN, VA."

All material for Indian Head, Md., shall be delivered to WHITE PLAINS, MD., Indian Head Siding, marked "For Supply Officer, Naval Powder Factory, Indian Head, Md."

Deliveries for the Navy Yard, Charleston, S. C., shall be made as follows:

Carload shipments must be delivered to the Navy Yard, a prepay station seven miles from the City of Charleston. Less than carload shipments must be delivered to the freight terminal, Charleston, S. C. Transfer to the Navy Yard from the freight terminal will be arranged by the Government.

Deliveries for the NAVAL AIR STATION, PENSACOLA (Warrington) FLA., shall be made as follows:

Carload shipments for the Naval Air Station, Pensacola (Warrington) Fla., from A Street, Pensacola, to the north end of the Bayou Grande trestle, and for Corry Flying Field, West Pensacola, Fla., from A Street, Pensacola, to Corry Flying Field, are handled by the St. Louis-San Francisco Railway Company. No switching charge is applicable except that a switching charge, payable by the shipper, in addition to the tariff rate to Pensacola, is assessed on all carload shipments originating at a non-competitive point served only by the Louisville and Nashville Railroad Company. Carload shipments between the north end of the Bayou Grande trestle and the Naval Air Station are handled by the Government.

Less than carload shipments must be drayed from Pensacola to the Naval Air Station, a distance of approximately nine miles, by private transfer companies, charges payable by the contractor. Prearrangement for drayage is not necessary, as the shipments are handled automatically upon arrival at Pensacola and the contractor is billed direct by the delivery transfer company.

Deliveries for the NAVAL SUPPLY DEPOT, SAN DIEGO, CALIF., shall be made as follows:

Carload rail shipments must be delivered to the Naval Supply Depot, San Diego. All less than carload shipments and carload water shipments must be delivered to the freight station, San Diego, transfer to the Naval Supply Depot, will be arranged by the Government.

IX. INSPECTION:

Inspection will be made at place of manufacture as directed by the Bureau of Engineering.

X. PHYSICAL TESTS:

All physical tests required by the specifications will be made at the works of the manufacturer on samples selected by the inspector. The manufacturer will supply the necessary facilities and labor to make all physical tests.

The process of manufacture shall be subject to Government inspection at all times.

Monthly report of material ordered and delivered to be made to each of the Bureaus of Engineering and Supplies and Accounts.

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UNSUITABLE PACKINGS:

If the packings under any contract covered by this schedule are not considered by the commandant or officer in charge suitable for the purposes of the Torpedo Station, Newport, R.I., Navy Yard, Washington, D. C., and the Naval Proving Ground, Indian Head, Md., the Government reserves the right to purchase such other packings as may be desired and will be suitable for such special purposes.

Packings under Contract NOS-49248 will be accepted only after inspection at the works of the manufacturer.

XI. BUREAU OF ENGINEERING NOTES ON CONTRACT PACKINGS:

- (a) Vessels may obtain any contract packings by means of "not-in-excess" Engineering requisitions, provided the materials are for use under the Bureau of Engineering and not under Construction and Repair or Ordnance (See Instructions on page 112, Engineering Allowance Book, 1917 and 1918 editions).
- (b) Care should be taken to ascertain that the proper packing is used for a particular service. See chapter 12, Manual of Engineering Instructions.
- (c) Due to compression in stuffing boxes, more of the soft than of the hard packing is required for the same purpose.
- (d) Gaskets cut from wire insertion rubber sheet (Symbol 2354) Cloth insertion rubber sheet (Symbol 2355) and asbestos metallic cloth sheet (Symbol 2151) are relatively expensive. In lieu thereof users should substitute compressed asbestos sheet packing wherever possible as it is cheaper and equally as effective for most applications.
- (e) Rod packings in such sizes as 7/16, 9/16, 1 1/16, etc. (all 1 1/16 inch sizes above 5/8 inch) are seldom necessary. Orders for such odd sizes should be avoided using plastic metallic packing in either the coil or bulk form when the odd size appears to be necessary.
- (f) Semi-metallic rod (Symbol 1400) or plastic metallic rod packings (Symbol 1431) should be used for steam service or reciprocating rods. For rotary rods and for liquids, such as water, oil, etc. use flexible metallic rod packing (Symbol 1430) or plastic metallic rod packing (Symbol 1431). The latter packing may be had in bulk or in convenient coil form.
- (g) Packings containing rubber deteriorate slowly in store, and nearly all packings will be injured when stored above a relatively high temperature or extensive moisture.
- (h) Unsatisfactory contract packings: In all cases where packings are found to be unsatisfactory, a sample of the used and unused packing, with complete data, should be forwarded to the Bureau of Engineering. Give trade name, state when and from whom received, where and how long packing was used, and how it failed. Compressed asbestos sheet packing (Symbol 2150) should have the date stamped upon it, if possible. Each sheet of this packing as received has the date stamped on opposite corners of the branded side.

NOTE:

Under certain circumstances packings should be ordered by officers on vessels, etc., from the contractors; but they should be obtained in the usual manner by requisition on the Supply Officers at the various Navy Yards and Stations. If the contract packing desired is not in stock or is a new type it will be obtained by the Supply Officer.

CHARLES CONARD
Paymaster General of the Navy

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