

**P. E. SCHUNDLER & CO., INC.**

PRODUCERS AND MANUFACTURERS  
604 RAILROAD STREET  
JOLIET, ILLINOIS

MADE IN U.S.A.  
U.S. PAT. OFF. 2,100,000

August 8, 1940



Navy Department  
Bureau of Ships  
Washington, D. C.

3755(6-29-35)

Gentlemen:

In reply to your letter of July 8, we would appreciate your advising us that as in formula

$6 \times (100 - V. S.)$  equals work factor,

100 as shown should not be 1.00. We would appreciate your advising us on this point.

As requested in your letter we are returning herewith our previous certificate of approval for cancellation.

Yours very truly,

P. E. SCHUNDLER & CO., INC.

A handwritten signature in dark ink, appearing to read "R. E. Sprague".

By R. E. Sprague

PL. R. E. Sprague  
Att. :  
113

235:ME  
Enc.

NEW METALLIC MINERALS

A handwritten signature in dark ink, appearing to read "Schundler".

HEAT INSULATION MATERIALS

000104



**CERTIFICATE OF APPROVAL**  
**SERIAL NO. EN-11-2 1582**

**IDENTIFICATION**

**Material** CRIST, INSULATITE, HIGH TENSILE  
**Governing Navy Department Specification** 11-C-14, TYPE C  
**Trade name (brand)** SCHWEDLER VERMICULITE  
**Manufacturer** F. S. SCHWEDLER & CO INC.  
**Address** JOLIET, ILLINOIS

**HISTORY OF QUALIFICATION TESTS**

Manufacturer's application for tests made 19 April 1937  
Authorization of tests, Bu. Engr No. J732/LJ-(4-19-De) of 23 May 1937  
Tests conducted at **ENGINEERING EXPERIMENT STATION**  
Tests started 27 September 1937 Tests completed 7 August 1938  
Test results covered by Laboratory Report No. 9377 of 9 November 1938  
Reported to manufacturer under Bu. Engr J732/LJ-(11-9-De) of 23 November 1938

**ACTION**

**APPROVED-** Retained on Acceptable List of Approved Materials

**REMARKS**

Brand name changed from INSULITE to SCHWEDLER VERMICULITE  
as requested by Exhibitor's letter of 19 December 1936 (Bu.  
File J732/LJ(11-9)).

**SUPERSEDES AND CANCELS CERTIFICATE EN-11-2-1582 issued 23 November 1936.**  
**NAVY DESIGNATION**

The Navy designation assigned to this material is SCHWEDLER VERMICULITE

**CONDITIONS OF APPROVAL**

This approval is granted under the conditions stated on the reverse side.

Approved:   
Chief of Bureau of Engineering

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### CONDITIONS OF APPROVAL

Certain materials and equipment are approved for naval use as a result of specified qualification tests. Where such approvals are granted the manufacturer is furnished with this serially numbered "Certificate of Approval" to identify the material or equipment thus approved. There are certain conditions attached to such approvals which are outlined hereunder.

### TRADE NAMES

The trade name or brand is shown herein for the convenience of the manufacturer. However, it may be desirable to use some other designation. In many cases some slight modification in the material or equipment is necessary to adapt it to naval shipboard conditions; in such cases, the trade name previously applied is no longer descriptive of the product eventually approved. In other cases a trade name may cover more than one quality, grade, or type, and a disagreement may arise as to the identity of the material or article approved. In still other cases the trade name is so chosen in that it is descriptive of uses or order usage other than that for which it is approved in the naval service, or of narrower use than that for which it has been fitted. Trade names which serve their purpose in commerce, but may result in confusion when applied to naval use. Such confusion will be avoided by the use of the "Navy Designation" for the material in question in official correspondence and proposals.

### NAVY DESIGNATION

The "Navy Designation" shown on the "Certificate of Approval", whether a serial number or trade name, specifies the material or article approved. The complete history of the transaction is covered in the reference. The Bureau's approval covers all the characteristics inherent in the sample, subjected to the specified qualification tests. The "Navy Designation" will be used by the Bureau in its reference to the material and it will facilitate matters if the manufacturer will use the same designation when referring to a material having the characteristics shown.

### PROPOSED CHANGES IN MATERIAL

Any change in the characteristics of the approved material should be brought to the immediate attention of the Bureau. Time to determine suitability of the modified material for naval service may be lost if the material and it will facilitate matters if the manufacturer will use the same designation when referring to a material having the characteristics shown.

### NAVY SPECIFICATIONS

This approval is based upon material in strict accordance with the governing Navy Department specifications, and nothing in connection with this approval shall be construed as a waiver of any part of the governing specifications.

### CONFIDENTIAL NATURE

This approval, and all test data in connection therewith, is held in strict confidence between the Bureau and the manufacturer concerned. Any use of it by the manufacturer or his agent for advertising purposes may result in the revocation of this approval and a request for the return of the serially numbered "Certificate of Approval."

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