

ITW Philadelphia Resins Corporation  
130 Commerce Drive  
Post Office Box 309  
Montgomeryville, Pennsylvania 18936  
Telephone 215.855.8450  
FAX 215.855.4688

## **ITW Philadelphia Resins**

---

January 19, 1995

Mr. Takahiro Koshino  
Surveyor, Machinery Department  
Nippon Kaiji Kyokai  
4-7, Kioi-Cho  
Chiyoda-Ku  
Tokyo 102, Japan

Subject: Use of CHOCKFAST GRAY for Auxiliary Machinery

Dear Mr. Koshino:

Our epoxy chocking compound, CHOCKFAST GRAY is approved by Nippon Kaiji Kyokai for chocking auxiliary marine equipment. The current design limitations are 50 kg/cm<sup>2</sup> maximum chock stress at a maximum temperature of 52°C.

Based upon our extensive experience, ITW Philadelphia Resins feels these limits are too restrictive. During the past 25 years, CHOCKFAST GRAY has been used to chock a variety of auxiliary marine equipment. In many cases, the actual loading has exceeded 50 kg/cm<sup>2</sup> and has reached 80-85 kg/cm<sup>2</sup>. Where necessary, approval was requested and granted by the appropriate classification society. There have been no reported problems with any of this equipment. In addition, the heat distortion temperature of CHOCKFAST GRAY is 88°C. This is determined using ASTM D-648, "Standard Test Method for Deflection Temperature of Plastics under Flexural Load". It is the temperature at which the physical properties of CHOCKFAST GRAY first begins to degrade. We always recommend a sufficient margin of safety be provided between the expected operating temperature of the Chockfast and 88°C.

In consideration of the above we request that the design limitations for CHOCKFAST GRAY be increased to a total chock stress of 85 kg/cm<sup>2</sup> at a maximum temperature of 60°C.

We thank you in advance for consideration of our request.

Very truly yours,

Bruce S. Shipley, P.E.  
Chief Engineer

**ClassNK** NIPPON KAJI KYOKAI  
4-7, KIOI-CHO, CHIYODA-KU,  
TOKYO 102, JAPAN.

TEL: 03-3230-1201  
FAX: 03-3230-3524  
TELEX: J22975 CLASSNK  
2324280 CLASNKJ  
CABLE: CLASSNK TOKYO

ITW Philadelphia Resins Corporation  
130 Commerce Drive, Post Office Box 309  
Montgomeryville, Pennsylvania 18936, U.S.A.

Our ref.: 95 MM 28  
Date: 7 February 1995

Atten.: Mr. Bruce S. Shiple / Chief Engineer

Dear Sirs,

Re.: Use of CHOCKFAST GRAY for Auxiliary Machineries

With reference to your letter dated 19 January 1995, we would like to inform you that we have no objection to the use of "CHOCKFAST GRAY PR-610FR" for the non-critically aligned auxiliary machineries such as deck winches, pumps and machineries on common bed plate, where the chocking works are so designed and conducted as to comply with your recommendations and technical instructions.

Whenever the technical standard is revised, you are kindly requested to send us the documents concerned for our reference.

With best regards.

Yours faithfully,

*M. Oka*

(M. Oka)

General Manager of  
Machinery Department

RECEIVED

FEB 14 1995

ITW PHILA. RESINS CORP.