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PLAINTIFF'S EXHIBIT
UC-2145

GRAFOIL®
Flexible Graphite

A Union Carbide Corporation Trademark Product

GRAFOIL® SEMINAR OUTLINE

1. Solving your packing and gasketing problems.
2. Understanding Asbestos packings or gaskets.
3. The search for an asbestos replacement.
4. Current non-asbestos offerings.
5. Characteristics of Graphite.
6. How GRAFOIL® is processed from chrystalline graphite.
7. Characteristics of GRAFOIL® vs. Graphite
8. Chemical resistance of GRAFOIL®.
9. Fire testing and fire safety with GRAFOIL®.
10. Corrosion protection with GRAFOIL®.
11. Oxidation of GRAFOIL® --- Misconceptions????
12. Valves --- Packing Installation procedures and features.
13. Flanges --- Gasketing Installation procedures and features.
14. Gaskets --- GRAFOIL® laminate offering and SWG filler.
15. Product Offerings: Packings, gaskets, ribbons, and tapes.

The seminar includes demonstrations which assist the participant in his/her understanding of the product and lasts about 90 minutes.

NOTE***

Since several of the demonstrations require the use of an open flame, your management is requested to provide a conference room in which these demonstrations may be conducted without violating the safety regulations of your company.

Union Carbide trial exhibit UC-2145: Grafoil Flexible Graphite Seminar Outline, Gasketing Newsletter and Distributio...
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GRAFOIL®
Brand Flexible Graphite

Newsletter
Number

PG 008 178

Your Seal of Assurance

SUBJECT: Special Gasketing Techniques With GRAFOIL® Flexible Graphite

INTRODUCTION

GRAFOIL® flexible graphite is a resilient form of graphite which has excellent properties as a gasketing material. By itself, GRAFOIL® flexible graphite seals about as readily as rubber. It is also fabricated into metal core laminates or into spiral wound gaskets, and significantly improves their characteristics. In general, GRAFOIL® gaskets will seal the maximum pressure specified on properly designed, correctly manufactured and suitable maintained equipment.

While being flexible and resilient, GRAFOIL® flexible graphite is still all graphite. It has no resins, binders or filler materials or other additives that might detract from the chemical inertness and temperature resistance of pure graphite. GRAFOIL® gaskets will not cold flow, become brittle, or vulcanize to gasketing surfaces in service. The unique chemical and physical properties of GRAFOIL® flexible graphite combine to make it a nearly universal gasketing material especially suitable to high temperature and cryogenic service and/or corrosive environments.

GENERAL POINTS TO REMEMBER WHEN GASKETING WITH GRAFOIL® FLEXIBLE GRAPHITE

1.) The flange surfaces must be clean, free of nicks, scratches, burrs, metal fillings, scale or other foreign matter.
2.) Use a proper bolt tightening sequence to ensure a uniform load is applied to the joint (see Figure VI). The use of a torque wrench is advantageous to ensure that a uniform tensile stress is applied to each bolt.
3.) GRAFOIL® Grade GHE 316 Stainless Steel Tang Metal Inserted gaskets (Catalog Section G-8817 and G-8819) should not be used between any metal surfaces that are softer than the stainless steel (i.e. aluminum, brass, bronze), or between glass or ceramic surfaces. When GRAFOIL® Grade GHE gaskets are used, the metal tangs must be compressed such that the GRAFOIL® begins to seal. Due to the minimum seating stress recommended for these gaskets (i.e. 2500 psi), the metal tangs can make small indentations in the softer metal of the flange face. The tangs can also create stress concentration points on glass or ceramic surfaces.
4.) GRAFOIL® flexible graphite gaskets must be loaded with a net compressive unit load as shown in the Unit Load vs. Leak Pressure Curve, Figure I, and in GRAFOIL® Catalog Sections G-8816 and G-8817.
5.) The initial thickness of the GRAFOIL® gasket must be such that when it is compressed between two mating surfaces, the GRAFOIL® is strained sufficiently at all points in the joint to seal the maximum service pressure. If the flange surfaces are scratched, serrated, or warped, the initial gasket thickness must be large enough to completely fill and compensate for their effects when the joint is made and the gasket is compressed.

UNION CARBIDE CORPORATION

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SP1002 Printed in U.S.A.

UCC 006672

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