REFRASIL®
Refractory silica in textile form
INSULATION

APPLICATION
BULLETIN
R-9



REFRASIL cloth protects welder and surrounding equipment from weld spatter.

REFRASIL outperforms asbestos, glass fiber textiles in welding applications

Adaptable REFRASIL cloth has found growing use in various welding operations across the country because of its excellent performance under extreme high temperatures and its outstanding characteristics as an insulator. It has been used in welding and cutting operations as weld pre-heat and stress-relieving blankets, weld protection utility cloths and weld station curtains and shields to protect personnel and adjacent components during fabrication, repair and assembly.

Recommended in U.S. Navy Shipyard Operations

The United States Navy now specifies REFRASIL cloth as a substitute for asbestos welding blankets and cutting/burning safety shields in accordance with its Asbestos Replacement Program. REFRASIL not only out-performs asbestos in welding operations, but also eliminates the health hazards associated with asbestos.

The Navy's Asbestos Replacement Program is in effect at all Naval shipyards and repair facilities, and at some commercial shipyards with Navy contracts.

REFRASIL also meets the U.S. Coast Guard requirements of 49 CFR 164.009 "Incombustible Materials," and Military Specification MIL-I-24244 "Insulation Materials, Thermal, with Special Corrosion and Chloride Requirements."

Insulation blankets

REFRASIL has been used effectively as an insulation blanket to retain and control heat in metal parts prior to welding, and to control the cooling rate of welded parts. It also is used as a stress-relieving blanket in post-weld heat treating operations. In the above applications, REFRASIL fabric is often combined with batt to increase insulating ability or a metal mesh for additional protection. REFRASIL UC100-48 and UC-100-96 most often is used in these cases.

Curtains or shields

REFRASIL 2220-96 and 2220-48 have found wide use as curtains or shields protecting personnel and equipment from weld spatter, and as a heat shield. REFRASIL curtains and shields normally are hung vertically to surround the entire welding area. Grommets may be installed to facilitate hanging.

8005 1704

PRODUCED BY FORD