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3R887

GRAPHITE SHEETS

This flexible graphite sheet is made from exfoliated graphite flakes which is compressed into a foil by a carefully controlled calendaring process. In this process, the expanded flake particles are mechanically locked together without the use of fibers, binders or other additives. Sheets of foil are then adhesively bonded and laminated to the required thickness.



APPLICATIONS

The 3R 887 flexible graphite sheet has pressure-temperature sealing capabilities that are far superior to all asbestos and non-asbestos reinforced sheet products. It is resistant to chemical attacks by virtually all organic and inorganic fluids with the exception of concentrated, highly oxidizing acids.

Gaskets cut from this sheet seal low to moderate bolt loads and because of its very low creep relaxation, re-torquing is rarely required. Flexible graphite readily flows into flange irregularities enabling it to seal both smooth and coarse surface finishes.

SPECIFICATIONS

Service limits

Temperature Limits	
Maximum	
• In air	-240 to 510 °C (-400 to 950 °F)
• Mild oxidizing environment	-240 to 850 °C (-400 to 1 500 °F)
• Non oxidizing environment	up to 980 °C (up to 1 800 °F)
Physical Properties	
Compressibility (ASTM F-36) %	44
Recovery (ASTM F-36) %	15
Creep Relaxation (ASTM F-38)	Less than 5%
Chemical Composition	
Carbon Content	99% Minimum

Ash	0.8% Maximum
Leachable chloride	30 ppm maximum
Available Sheet Sizes	
Thickness	1/32", 1/16", 1/8"
Sheet Sizes	39.4" X 39.4", 60" X 60 "

N.B. The information, details and values indicated are to the best of our know ledge. We recommend to conduct tests according to local conditions. The data is subject to some variations w ithout notice.