



industries3r.com

**Danville office**

Industries 3R inc.  
55, Road 116 West  
Danville (Quebec)  
Canada J0A 1A0

Telephone: (819) 839-2793  
Fax: (819) 839-2797  
Toll-free: (800) 567-2728  
Email: info@industries3r.com

**Montreal office**

Industries 3R inc.  
1479, Begin street  
Ville St-Laurent (Quebec)  
Canada H4R 1V8

Telephone: (514) 333-3971  
Fax: (514) 333-7224  
Email: info@industries3r.com

# 3R887F

## GRAPHITE SHEETS

The 3R 887F is a flexible graphite sheet reinforced with a 316ss foil, 0.002" thick. The flexible graphite sheet is made from exfoliated graphite flakes which are compressed into 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. The resulting sheets are then laminated together with an adhesive to obtain the required thickness.



### APPLICATIONS

This flexible graphite sheet has pressure-temperature sealability capabilities that are far superior to all reinforced sheet products. It is resistant to chemical attack by virtually all organic and inorganic fluids with the exception of concentrated, highly oxidizing acids.

Gaskets cut from 3R 887F seal with low to moderate bolt loads and because of very low creep relaxation, re-torquing is rarely required. This material conforms to irregular flange sealing surfaces and readily flows into flange irregularities enabling it to seal both smooth and coarse surface finishes.

### SPECIFICATIONS

#### Service limits

Temperature Limits	
Maximum	
• In air	-240 °C à 510 °C (-400 °F à 950 °F)
• Mild oxidizing environnement	-240 °C à 850 °C (-400 °F à 1500 °F)
• Non oxidizing environnement	up to 980 °C (up to 1 800 °F)
Physical Properties	
Compressibility (ASTM F-36)%	40
Recovery (ASTM F-36)%	16
Creep Relaxation (ASTM F-38)	Less than 5%
Chemical Composition	
Carbon Content	99% Minimum

Ash	0.8% Maximum
Leachable chloride	30 ppm maximum
<b>Available Sheet Sizes</b>	
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.