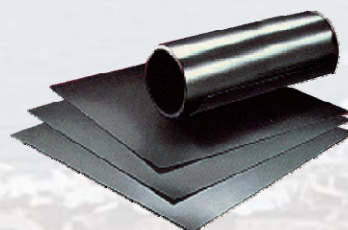


# FLEXIBLE GRAPHITE SHEET

## REINFORCED with 316SS FOIL INSERT

**CONFORMS TO MIL-DTL-24696C TYPE 1**



**Flexible graphite sheet** is made from exfoliated graphite flake, which is 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 Flexible Graphite sheet is laminated with an adhesive bond on both sides of a .002" thick 316 stainless steel foil insert. Used where high performance and handle ability are important.

### SHIPBOARD APPLICATIONS

- GAS TURBINE EXHAUST
- DIESEL EXHAUST
- INCINERATER EXHAUST
- LOW PRESSURE STEAM <150 PSI / 775° F
- STEAM for AUX BOILER, REBOILER and WASTE HEAT BOILER INSTALLATION ONLY 150 PSI/366° F
- SEWERAGE TREATMENT 1200°



		SERVICE LIMITS	
Type	Description	Value	
Temperature Limits:	Minimum	-328°F (-200°C)	
	Maximum		
	In air	840°F (450°C)	
	In steam	1200°F (650°C)	
	In reducing or inert media	5400°F (3000°C)	
Pressure Limits:		2500 psi (175 bar)	
Typical Properties:	Compressibility	35% (Tested under 5000 psi)	
	Recovery	18% (Tested under 5000 psi)	
SHEET SIZE	PART NUMBER		
1/16" THK X 39.4" x 39.4"	SDS-0624040-MIL		
1/8" THK X 39.4" x 39.4"	SDS-1254040-MIL		
1/4" THK X 39.4" x 39.4"	SDS-2504040-MIL		

**AVAILABLE IN NAVY DRILL, COMMERCIAL DRILL AND CUSTOM PRE-CUT GASKETS**



# ***THERMICULITE. 815***

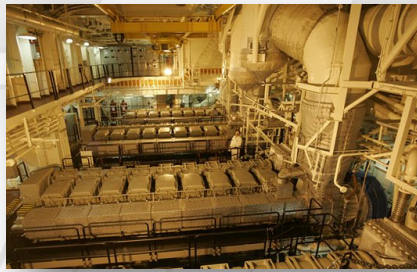
## **CRITICAL SERVICE SERIES**



- Premium Grade, Critical Service Sheet
- Original grade of Thermiculite
- On 316ss tanged core
- Niche market, problem solving material for extreme high temperature applications up to 1800°F
- Successfully passed API 607 and Exxon fire tests
- Available in 1m x 1m and 1.5m x 1.5m
- Thicknesses 1/32, 1/16, 1/8
- Proven Track Record Since 1998
- Winner of Chem Processing magazine Vaaler Award



OIL / GAS



GAS TURBINE / DIESEL EXHAUST



POWER

## SERVICE LIMITS

Type	Description	Value		
Temp. Limits:	Maximum	1800°F (982°C)		
Pressure Limits:		2900 psi (200 bar)		
Thicknesses		1/32	1/16	1/8
Typical Properties:	Compressibility	33%	44%	44%
	Facing Density lb/ft <sup>3</sup>	75	75	75
	Recovery	13%	9%	9%
	Gas Permeability mL/min	.06	.13	.17
	Stress Retention @570°F	4930	4500	2470
	Creep Relaxation - 1/32"	23.5%		
PART NUMBER / SHEET SIZE				
SDS-03244-815 / 1/32" X 39.4" X 39.4"		SDS-03255-815 / 1/32" X 60" X 60"		
SDS-06244-815 / 1/16" X 39.4" X 39.4"		SDS-06255-815 / 1/16" X 60" X 60"		
SDS-12544-815 / 1/8" X 39.4" X 39.4"		SDS-12555-815 / 1/8" X 60" X 60"		
SDS-25044-815 / 1/4" X 39.4" X 39.4"		SDS-25055-815 / 1/4" X 60" X 60"		

**NAVY DRILL, COMMERCIAL DRILL AND CUSTOM PRE-CUT GASKETS ARE AVAILABLE**



## STYLE 9900NA - Compressed Sheet Graphite/NBR Binder



**Style 9900NA** is a Compressed Non-Asbestos sheet gasket material produced from aramid fiber, graphite, reinforced fillers and bonded with nitrile rubber (NBR). It is manufactured through the hot calendar process under rigorous quality control standards that are registered under ISO-9001.

**ABS Fire Safe Type Approved for Fire Main Systems**

**APPLICATION / SERVICE** □ **STYLE 9900NA** is suitable for services with the following general media categories

- Mild inorganic acids
  - Diluted alkalis
  - Aliphatic solvents
  - Synthetic oils
  - General chemicals
- Mild organic acids
  - Water
  - Industrial gases
  - Vegetable oils
  - Neutral solutions
- Refrigerants
  - Brine
  - Animal oils
  - Petroleum and Derivatives
  - Air

### SERVICE LIMITS

Type	Description	Value
Temperature Limits	Maximum	1,000°F
	Continuous Max	650°F
Pressure Limits	Maximum	2,000 PSI
ASTM Line Call Cut F104	F7713130E43M5	

## TYPICAL PHYSICAL PROPERTIES

ASTM Test Method	Property	Value
ASTM F1315	Density	100 lb/ft <sup>3</sup> (1,6g/cc)
ASTM F36A	Compressibility	10-20%
ASTM F36A	Recovery	min 37%
ASTM F152	Tensile Strength	1740 psi (12N/mm <sup>2</sup> )
ASTM F146	Thickness Increase	
	• ASTM Oil IRM903, 5h/300°F (150°C)	max 15%
	• Fuel B, 5h/77°F (25°C)	max 15%
ASTM F146	Weight Increase	
	• ASTM Oil IRM903, 5h/300°F (150°C)	max 25%
	• Fuel B, 5h/77°F (25°C)	max 30%
ASTM F1315	Density	100 lb/ft <sup>3</sup> (1,6g/cc)
ASTM F36A	Compressibility	10-20%
ASTM F36A	Recovery	min 37%
ASTM F152	Tensile Strength	1740 psi (12N/mm <sup>2</sup> )

SHEET SIZE	PART NUMBER
1/64" X 60" X 60"	SDS-06455-9900NA
1/32" X 60" X 60"	SDS-03255-9900NA
1/16" X 60" X 60"	SDS-06255-9900NA
3/32" X 60" X 60"	SDS-09355-9900NA
1/8" X 60" X 60"	SDS-12555-9900NA
LARGER SHEET SIZES and PRE-CUT GASKETS AVAILABLE	



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