



PAPYEX® I600 HP graphite sheet

The High Performance Sealing Material

■ Applications

Flat gaskets for petrochemical industry, refineries, power plants...

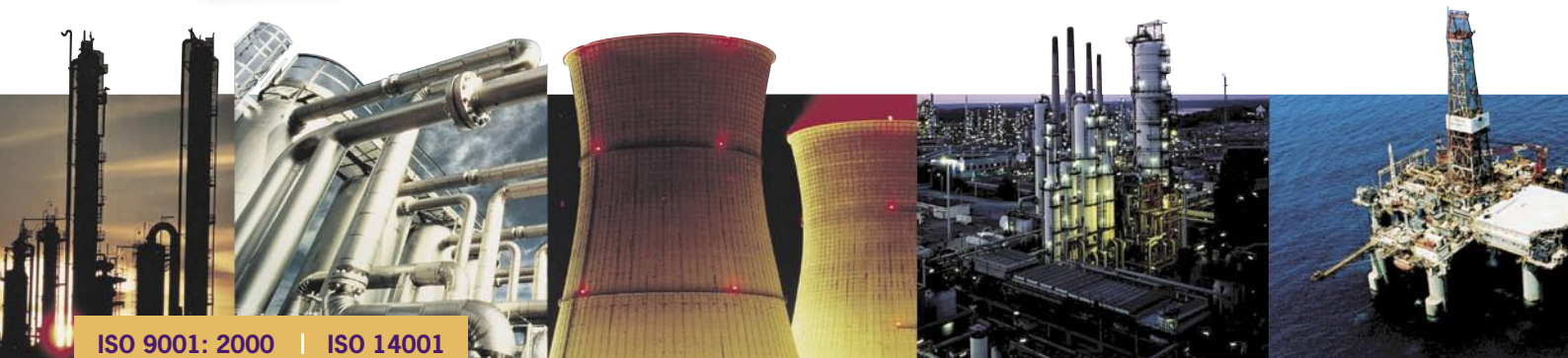
■ Product description

I600 HP (**High Pressure**) graphite is manufactured with multiple layers of graphite sheets along with stainless steel foils.

This process is **patent pending** by Carbone Lorraine.

■ Technical benefits

- **Easy to cut** gaskets with low cost and conventional means.
- **Resistant** to high temperatures as no glue is included.
The I600 graphite grade provides outstanding oxidation resistance.
- **Solid and rigid** thanks to mechanical assembling (tanged inserts).
- **Withstands very high bolt pressures** (up to 200 MPa at 400°C), therefore enables hot and very high pressure fluids sealing.
- **Perfectly adapts to your needs.** Customized number of inserts adapted to fluid pressure.
- **Easy gasket release** preventing flange damages thanks to Carbone Lorraine anti-sticking coating.

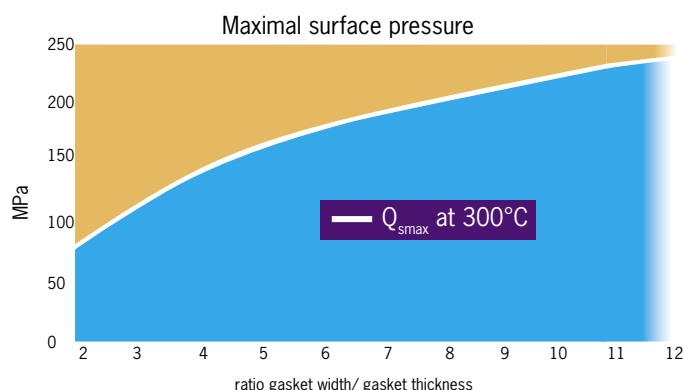


ISO 9001: 2000 | ISO 14001

WORLDWIDE SPECIALIST IN INDUSTRIAL COMPONENTS

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DESIGNATION POPYEX HP							
Thickness		mm	1	1.5	2	3	4
Graphite grade			I600			N9985	
	Ash content	%	< 1			< 0.15	
	Total sulfur content	ppm	< 700			< 500	
	Total chloride content	ppm	< 25			< 20	
	Oxidation stability at 500°C in air	weight loss % / h	0.02			0.02	
Insert type	Stainless steel		316 (L)				
	Thickness	mm	0.05 mm				
	Number of inserts		1	2	3	5	7
	Type		tanged insert				
Mechanical tests according to EN 13555 - Thickness 2 mm - Gasket width 20 mm							
Residual Stress	Temperature	°C	20°C		300°C		400°C
	P_{qr} at 50 MPa		0.99		0.94		0.92
Maximal surface pressure	Q_{smax}	MPa	> 220		> 220		200 MPa
Deformation factors DIN28090-2							
Compression at 20°C	ϵ_{ksw}	%	30 - 40				
Recovery at 20°C	ϵ_{krw}	%	4 - 5				
Creep compression at 300°C	ϵ_{wsw}	%	< 4				
Recovery at 300°C	ϵ_{wrw}	%	4 - 5				
ASTM	- m factor		2.5				
	- y stress	Minimum gasket pressure	psi		3,000		
Available width		mm	1,000 x 1,000				
	Developed End of 2006	mm	1,500 x 1,500				



CARBONE LORRAINE Group :

6,200 employees and an extensive industrial and commercial network covering around 40 countries, working hand in hand with our clients to pursue permanent innovation through a broad range of top-class products and services.

For any information, please get in touch with Sales Department.

Tel.: +33 (0)1 41 85 45 87 / 43 66
papyex@carbonelorraine.com



Contact for America
CARBONE OF AMERICA
 900 Harrison Street
 Bay City, MI48708, USA
 Phone: +1 989 894 29 11
 Fax: +1 989 895 77 40
 E-mail: jerome.dewasch@carbonelorraine.com
www.carbone-support.com

Contact for Europe
CARBONE LORRAINE COMPOSANTS
 41 rue Jean Jaurès - BP 148
 F-92231 GENNEVILLIERS Cedex - FRANCE
 Tel. : +33 (0)1 41 85 45 87
 Fax : +33 (0)1 41 85 45 88
 E-mail : papyex@carbonelorraine.com
www.carbonelorraine.com

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