*MIN*TEQ INTERNATIONAL INC.

A subsidiary of Minerals Technologies Inc.

FIREX™ RX 2373

FIREX™ RX 2373 is a modified epoxy binder filled with thermally active materials that form cooling gases when exposed to temperature in excess of 350 ºF (177 ºC). When heated to the range of 1000 - 5000 ºF (538 – 2760 ºC), a char forms that insulates by transpirational cooling and re-radiation. The filler materials act to efficiently control the release of gaseous molecular species.

The material offers the same performance as **FIREX™ RX 2390** and is appropriate for those applications needing a very smooth surface texture. All FIREX™ products adhere well to metals, wood, paper, and glass and readily accept a top coat.

FIREX™ RX 2373 is a two part epoxy resin system capable of application through screeding, trowel or injection molding. Pot life and cure time are adjustable with the addition of small amounts of solvent and the material cures at room temperature to a final density of 0.045 (1.245 g/cc).

FIREX™ Technical Data

RX-2373

Minteq Pyrogenics Group
640 N. 13th Street, Easton, PA 18042
(800) 962-8586 • FAX (610) 250-3325
www.pyrographite.com

*MIN*TEQ INTERNATIONAL INC.

A subsidiary of Minerals Technologies Inc.

FIREX™ Technical Data RX-2373

Thermal and Physical Properties of FIREX™ RX-2373 and RX 2390

Property	ASTM or Test Method	Typical Values
Tensile Strength	D638-68	
@ -54 °C (-65 ° F)		281 kg/cm^2 (4000 psi)
@ 21 °C (70 ° F)		60 kg/cm^2 (810 psi)
@ 93 °C (200 ° F)		3 kg/cm^2 (43 psi)
Ultimate Elongation	D638-68	
@ -54 °C (-65 ° F)		X1 %
@ 21 °C (70 ° F)		3 %
@ 93 °C (200 ° F)		13 %
Compressive Strength	D695-63T	
@ -54 °C (-65 ° F)		1188 kg/cm^2 (16900 psi)
@ 21 °C (70 ° F)		175 kg/cm^2 (2490 psi)
@ 93 °C (200 ° F)		11 kg/cm^2 (160 psi)
Flexural Strength	D790-66	
@ -54 °C (-65 ° F)		439 kg/cm^2 (6240 psi)
@ 21 °C (70 ° F)		136 kg/cm^2 (1940 psi)
@ 93 °C (200 ° F)		11 kg/cm^2 (160 psi)
Shear Strength	D1002-64	
@ -54 °C (-65 ° F)		149 kg/cm^2 (2120 psi)
@ 21 °C (70 ° F)		48 kg/cm^2 (680 psi)
@ 93 °C (200 ° F)		3 kg/cm^2 (49 psi)
Izod Impact Strength	D256-56	
@ 21 °C (70 ° F)		0.016 kg/cm^2 (0.52 psi)
Coefficient of Thermal Expansion	D696-44	0.94x10^{-6} cm/cm°C
Thermal Conductivity	Cenco-Fitch	0.233 W/m°K (0.135 BTU/(hr ft^2)(°F/ft)
Specific Heat	C351-61	1.968 J/g °K (0.47 BTU/Lb -° F)
Electric Resisitivity	D257-66	1.28μΩcm
Dielectric Strength	D149-64	270 volts/mil
Arc Resistance	D494-61	78 sec
Dielectric Constant	D150-65T	
@ 60 °C		25
@ 1000 °C		5.2
Dielectric Factor	D150-65T	
@ 60 °C		0.34
@ 1000 °C		0.08

Minteq Pyrogenics Group
640 N. 13th Street, Easton, PA 18042
(800) 962-8586 • FAX (610) 250-3325
www.pyrographite.com

RX-2373