

NYACOL® NYAGRAPH KP251 Expandable Graphite Flame Retardant

Nyacol NYAGRAPH KP251 is an intumescent flame retardant that offers the following advantages:

- Halogen-free
- Low smoke
- Non-dripping
- Reduced heat release
- Lower in toxic gases
- Insulating

NYAGRAPH KP251 is a natural material based on processed graphite ore.

The ore is treated with sulfuric acid in what is called an intercalation process.

The material is washed and neutralized to prevent corrosion of metal parts when processed by the user.

Excessive shear should be avoided.

NYAGRAPH KP251 may be used in polyurethanes, sealants, bitumens, rubbers, adhesives, coatings, and polymers.

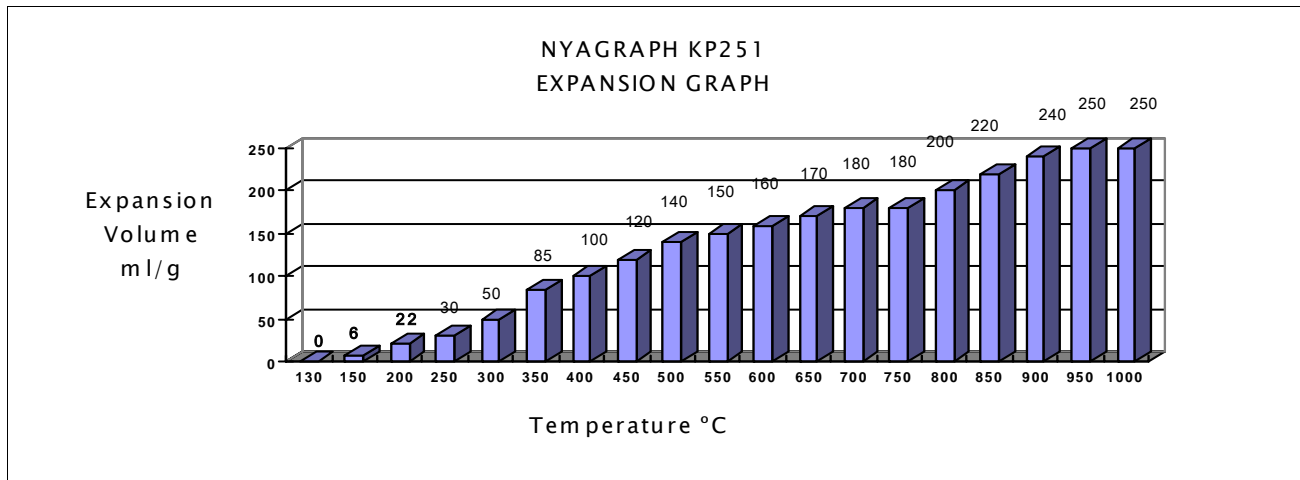
NYAGRAPH KP251 may also be used in conjunction with other flame retardants to provide improved flame-retardant and smoke-suppressant properties to a material.

TYPICAL PROPERTIES

Particle Size, % 50 mesh:	Min. 80
Appearance:	Soft black particles
pH:	5 – 7
Onset Temperature, °C:	135 – 155
Expansion Volume, cm ³ /g:	≥230
Moisture, %:	0.2 – 1.0
Purity, %:	≥99.0
Specific Gravity, g/cm ³ :	2.1 – 2.35
Bulk Density, g/cm ³ :	0.55 – 0.75
Free Acid, mg/g NaOH:	Max. 0.5

TYPICAL PARTICLE SIZE DISTRIBUTION, %

Over 840µm	0.4
840µm – 710µm	<2
710µm – 630µm	<2
630µm – 500µm	9 – 12
500µm – 425µm	<1
425µm – 355µm	45 – 55
355µm – 300µm	12 – 18
300µm – 180µm	8 – 14
180µm – 150µm	1 – 3
<150µm	1 – 3



FOR ADDITIONAL INFORMATION OR TO PLACE AN ORDER

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