

## NYACOL NYAGRAPH 252 DATA SHEET

## NYACOL® NYAGRAPH 252

# Expandable Graphite Flame Retardant

Nyacol NYAGRAPH 252 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 252 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.

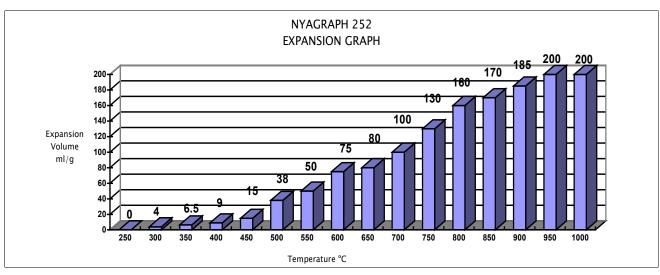
NYAGRAPH 252 may be used in polyurethanes, sealants, bitumens, rubbers, adhesives, coatings, and polymers.

NYAGRAPH 252 may also be used in conjunction with other flame retardants to provide improved flame retardant and smoke suppressant properties to a material.

#### TYPICAL PROPERTIES

#### TYPICAL PARTICLE SIZE DISTRIBUTION, %

Particle Size, % 50 mesh: Min. 80 (over 20 mesh 0%) Over 840µm: Soft black particles 840µm - 710µm: < 1.5 Appearance: 6 - 8 710µm - 630µm: pH: < 3 Onset Temperature, °C: 250 - 260 630µm - 500µm: 12 - 18 < 1.5 Expansion Volume, cm<sup>3</sup>/g: 170 - 210 500µm - 425µm: Moisture, %: 0.2 - 1.0425µm - 355µm: 50 - 6095.0 - 97.0 7 - 11 355µm - 300µm: Purity, %: Specific Gravity, g/cm<sup>3</sup>: 2.1 - 2.3300µm - 180µm: 5 – 13 Bulk Density, q/cm<sup>3</sup>: 0.45 - 0.75180µm - 150µm: 0.5 - 50 - 2 Free Acid, mg/g NaOH: Max. 0.5 <150µm:



### FOR ADDITIONAL INFORMATION OR TO PLACE AN ORDER

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