

NYACOL NYAGRAPH 20 DATA SHEET

NYACOL® NYAGRAPH 20 Expandable Graphite Flame Retardant

Nyacol NYAGRAPH 20 is an intumescent flame retardant that offers the following advantages:

Halogen-free

• Non-dripping

· Low smoke

Reduced heat releaseLower in toxic gases

Insulating

NYAGRAPH 20 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 20 may be used in polyurethanes, sealants, bitumens, rubbers, adhesives, coatings, and polymers.

NYAGRAPH 20 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, % 200 mesh: Min. 80 Appearance: Soft black particles 6 - 8 pH: Onset Temperature, °C: 180 - 200 Expansion Volume, cm³/g: ≥ 16 Moisture, %: 0.2 - 1.0Purity, %: ≥ 94.0 Specific Gravity, g/cm³: 1.9 - 2.1Bulk Density, q/cm³: 0.45 - 0.55Free Acid, mg/g NaOH: Max. 0.5

TYPICAL PARTICLE SIZE DISTRIBUTION, PERCENT

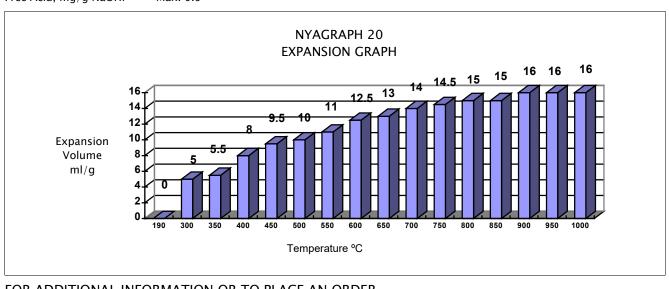
 Over $180\mu m$ 0

 $180\mu m - 150\mu m$ 2

 $150\mu m - 75\mu m$ 8 - 15

 $75\mu m - 45\mu m$ 30

 $<45\mu m -$ 33 - 60



FOR ADDITIONAL INFORMATION OR TO PLACE AN ORDER

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