

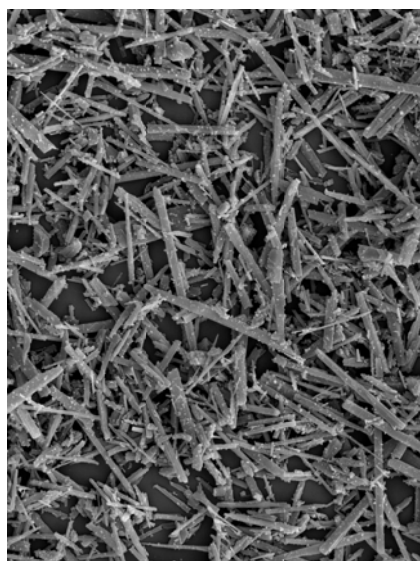


## Wollastonite, A Natural Functional Filler for Adhesives and Sealants

NYCO's wollastonite products are basic raw materials in adhesive and sealant formulations. Traditionally, the main reason for using fillers in adhesives and sealants was to reduce costs. However, functional properties are increasing in importance as the market demands on these applications advance. Due to the unique chemistry and acicular structure of wollastonite, it has become a commercial functional filler in adhesives and sealants to improve mechanical properties, sag resistance, rheology, cold temperature crack resistance and tensile strength.

The selection of the right NYCO product is dependent on the type of adhesive/sealant being produced, performance criteria and if replacing an existing filler, the particle size and attributes of that filler. From high brightness grades for wet-room sealants, to fine and coarse powder grades for tile adhesives and grouts to surface modified high aspect ratio grades for moisture sensitive systems and applications requiring excellent peel strength performance.

NYCO produces a range of wollastonite products that vary in particle sizes and aspect ratios that can be matched to competitive wollastonite grades and other types of minerals. Most of the grades produced are available surface modified to enhance mechanical properties and dispersion if required. New product developments include very low moisture content and uptake, designed specifically for reactive adhesives and sealants based on a range of polymer systems.



### Low Aspect Ratio, Powder Grade Wollastonite

#### NYAD 325, NYAD 400, NYAD 1250

- Improved compression set
- Improved char resistance
- Low moisture

### Fine Diameter, High Aspect Ratio Wollastonite

#### ASPECT 3000, ASPECT 4000, NYGLOS 4W, NYGLOS 8

- Improved strength and tensile ( peel strength)
- Improved sag resistance
- Abrasiveness/rough texture
- Elongation change if evaluating in an existing formulation
- Cost savings—replacement of milled glass or extension of chopped glass

Typical Loading Levels	Adhesives	Sealants	Transportation
5 to 50 % Loading by Weight	Paper, Board	Insulating Glass, Structural glazing, Wet-room sealant	Direct Glazing ( 40 to 65% )
10 to 50% Loading by Weight	Flooring, Woodworking	Construction	Sound and Vibration Reduction ( 20 to 60% )

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