

### Magnesium Silicate (Talc)

#### Introduction

Talc is a naturally occurring mineral ranging in color from white to various shades of gray and green. Some talc is red to brown, usually the result of impurities. Talc is used in a wide range of manufactured products; it can be found in paper (as a filler), face and talcum powder, soap, fireproof roofing, lubricants, electrical insulation, and pottery.

It is used in cosmetics as filler and as an absorbent. These final products are a mixture of many different components, so the talc is usually measured prior to mixture. Particle size is important to final product surface quality (cosmetics) or mechanical strength of the product.

#### Analytical Test Method

RI (particle): 1.57-0.10i

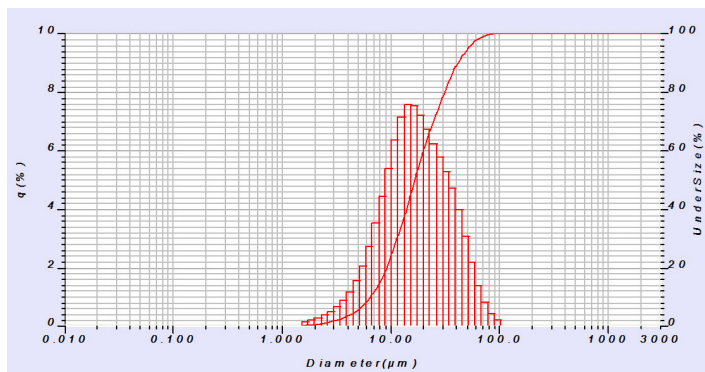
Dispersant fluid: Water, 0.1% sodium pyrophosphate

Sonication: None

Circulation speed: 5

Agitation speed: 2, continuous

Note: Talc can be hydrophobic and difficult to wet in some instances. In this case, wet a small amount of sample to a paste with a 50% mixture of water and Micro-90 or isopropyl alcohol.



#### Example data

Median:	16.70 µm
Mean:	21.06 µm
D(10%):	6.59 µm
D(90%):	41.94 µm