

### Laser Diffraction Analysis of Vanadium Pentoxide on the Partica LA-960V2

#### Introduction

Vanadium Pentoxide is used as a catalyst and an additive to steel. In other industries it is used in various items such as a colorant for ceramics and pigment compounds, batteries, die fixer, and vitamins. Vanadium Oxide is slightly soluble in water so measurement in an organic solvent or as a dry powder is recommended. For particularly small sample medians, the high-dispersion nozzle will be needed.

#### Analytical Test Method

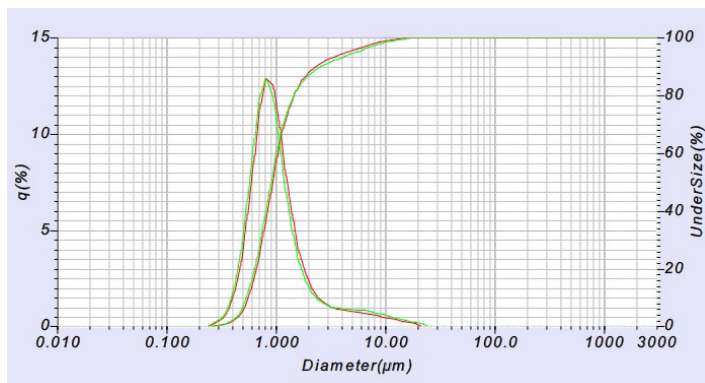
RI (particle): 1.46-0.10i

Dispersant fluid: Isopar G; RI: 1.44

Sonication: 60 seconds, power 300 watts

Circulation speed: 5

Agitation speed: 3



#### Example data

Median Wet: 0.90  $\mu\text{m}$

Median Dry: 0.93  $\mu\text{m}$

#### Results

This data shows the excellent agreement between wet and dry measurement systems, even for very small median sizes.