



PARTICLE SIZE ANALYSIS OF ANTIMONY TRIOXIDE

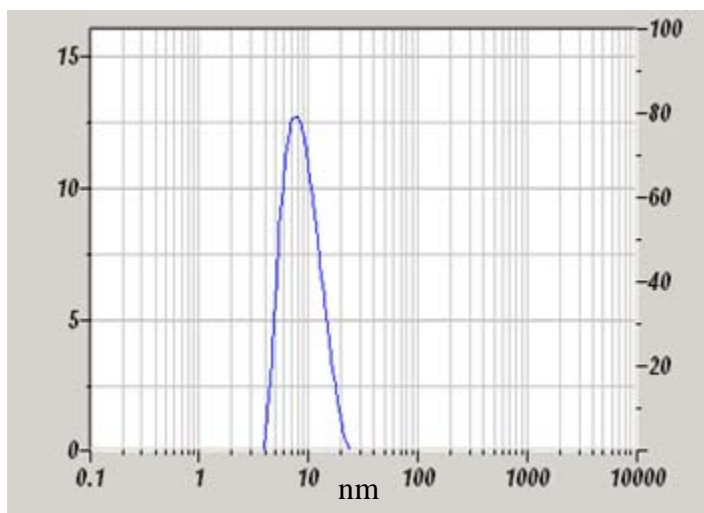
Summary

Antimony trioxide, also called antimony white, has the formula Sb_2O_3 with a structure dependant on the temperature. It is used as a flame retardant, pigment, and catalyst. Antimony trioxide is mainly produced via the smelting of stibnite ore, which is oxidized to crude Sb_2O_3 using furnaces operating at approximately 850 to 1,000 °C.



Analytical test method

Measurement equipment: SZ-100
Measurement temperature: 25 °C
Dispersion medium: ethanol
Algorithm: polydisperse, standard
Angle: 90°
Measurement duration: 90 seconds
Result format: intensity distribution



Example data

Z-average: 8.6 nm

Discussion

This sample easily dispersed in ethanol and did not require additional sample preparation. The repeatability was excellent with a mean Z-average of 8.6 nm with a standard deviation of 0.37 nm.



Particle Characterization Analyzer

Applications Data Sheet

SZ-Series Instruments

ADS126

Antimony Trioxide

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