

Wolf Paint Volume Solids Instrument

Predict dry film thickness with confidence before you commence painting

The Wolf Paint Volume Solids Instrument is a compact and robust portable instrument designed for operation in industrial and laboratory environments. It measures paint volume solid content so that the wet paint film thickness can be directly and reliably translated into the equivalent dry film thickness. Data from PVS1 are used by the Wet Film Monitor WFM1 to accurately predict dry film thickness well before you commence painting.

The system allows rapid and simple precise determination of paint volume solids. A small drop of paint taken from the drum, paint tray, spray head, coating or pick-up roll is analyzed quickly with high precision. Results are stored for future reference, statistical analysis and reporting.

Principle of Operation

The instrument precisely measures and compares the volumes of a paint sample before and after curing. After measurement of the wet volume, solvents are driven out by an oven cure cycle that targets the same degree of cure as on your paintline. Optionally, the instrument can be tailored to simulate any industrial curing or drying

mechanism or sequence. Once cured, the dry volume is measured. Simply put, PVS1 measures the volume change that occurs in the transformation from a wet paint film to fully cured paint film.

Only a drop of paint is required. Measurement is by non-contact laser sensors to an accuracy of better than 0.5 percent. Sophisticated algorithms convert sensor measurements into actual paint volume data. The analysis sequence is automatically controlled resulting in assured quality with minimal operator training. Measurements are as simple as inserting the sample into the instrument and initiating the measurement and analysis cycle with the press of a button.



*Paint Volume Solids
Instrument – PVS1*