

## **Classes of Materials (COM) – A tool for analysis and material identification**

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The concept of Classes of Materials (COM) is presented, which can be both used as a fast analysis method and as a tool to identify unknown materials and select a suitable measurement setup using energy-dispersive X-ray fluorescence spectroscopy. Since COM are based on theoretical spectra, any kind of thickness and concentration combination is possible even if no standards with these values are present. As an example, the application of the sorting mechanism of COM to the discrimination of different types of solder is shown.