# Dunite Nano-Pellet, pressed pellet diameter 20 mm (Standard for solid-state microanalysis) 

Art. ID
Unit
Deliverydetails

MY-DTS-2b-NP-LA-ICP-MS-LIBS-20MM<br>each (pressed pellet)<br>No Dangerous Good /not restricted

Description
Pellet for LA-ICP-MS and LIBS application /// The principle behind LA-ICP-MS (Laser Ablation - Inductively Coupled Plasma - Mass Spectrometry) involves a laser beam removing (ablating) material from a sample and analysing its chemical composition in a mass spectrometer /// LIBS (Laser-Induced Breakdown Spectroscopy) uses a laser beam to interact with the sample. Due to the extreme heat of the laser ( $10,000 \mathrm{~K}$ and more) a plasma is formed. A plasma is a cloud of ions (charged atoms) and electrons (negatively charged particles). When this plasma collapses it emits light. Light is a mixture of different wavelengths. This light is then transferred through a fiberoptic cable to a spectrometer, which can precisely split the light into its respective wavelengths. The working principle of the LIBS-spectrometer is similar to a prism as it disperses the incomming light. Each element has several characteristic wavelengths. A detector is able to attribute an intensity to each of them.

| Text/Information | Analyte/Parameter | CAS number | Concentration/Value | Unit | Method |
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