

Sample preparation for the analysis of matured timber

The matured timber statute dedicates itself with the utilization & application of matured timber: the use of the material, applications in energy & the disposal of it

It especially includes rules concerning analysis for the examination of matured timber in regards to heavy metals (lead, cadmium, chromium etc.) arsenic, as well as PCP and PCB (pentachlorophenol and polychlorinated biphenyl).

The task

For the sample preparation (after a suitable sampling) a composite sample of 500 g is needed. This is divided into two sub-specimens.



Fig. 1: Wood sample

Comminution with FRITSCH Cutting Mills

After drying, the sample is reduced with the **Universal Cutting Mill PULVERISETTE 19** or with the **Universal Cutting Mill PULVERISETTE 19I/50-700 rpm**, down to < 2 mm.

The obtained homogenous sample is treated with aqua regia and then with ICP-OES or AAS analyzed.



Fig. 2: Sample after comminution

Sources and further literature

http://www.gesetze-im-internet.de/altholzv/anhang_iv.html

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