

TML PROCTOR/FAGERBERG

TML PROCTOR/FAGERBERG
EQUIPMENT TO DETERMINE IF
YOUR CARGO IS SUITABLE
FOR TRANSPORT.

- Equipment for the Test method for fine and coarse-grained materials with a maximum size of 5mm
- Versions sizes available for iron, coal and the normal version
- Follows IMSBC code
- Produces accurate test results



Description

Proctor/Fagerberg test is a method to determine the amount of cargo that is safe for transportation.

This test method is mostly done for fine and coarse-grained ores or similar type of materials with a max size of 5mm

The material is partially dried at about 60°C depending on the material. The material should be at least three times the amount as the required amount. Once it's dry, a suitable amount of water is added to the material. The sample will be mixed carefully for 5 minutes. Approximately one fifth of the mixed sample is filled into the mould after leveling the sample. The provided hammer is used to tamp the sample. The process is repeated 25 times for all five of the layers. Then the extension piece can be removed so that the sample can be leveled once again and after the weight of the cylinder with the sample is determined, the sample is dried and the weight can be determined.

The equipment

The Proctor/Fagerberg testing equipment set consists of a hammer and hammer guide (50 or 75mm) and a cylindrical stainless steel mould 150 mm in diameter and 120 mm high with a detachable extension piece. The product sizes vary on the type of test that is being performed.

Other requirements

In order to perform the test completely other equipment that is required is a drying oven, a mixer that does not reduce the size of the test material and a pycnometer to determine the density of the material

Different material versions

The Proctor/Fagerberg has different test procedures and equipment requirements for other materials that have to be followed in order to have accurate test results. The main materials that are used for this test are iron, coal and bauxide



TML Proctor/Fagerberg equipment disassembled



TML Proctor/Fagerberg mould with extension

Advantage

The biggest advantage is that the Proctor/Fagerberg equipment is very easy to use and with the LAARMANN grip improvements and only takes a few minutes to set up the test, while the test results are 100% accurate



Technical data*	normal*	coal*	iron*	bauxite*
Hammer weight	350g	337.5g	150g	337.5g
compact hammer diameter	50mm	75mm	50mm	50mm
drop height	200mm	150mm	150mm	150mm
tube hammer inner diameter	53mm	78mm	53mm	78mm
mould inner volume	1000cm ³	2121cm ³	1000cm ³	2121cm ³
mould inner diameter	105mm	150mm	105mm	150mm
mould inner height	115,5mm	120mm	115,5mm	120mm
height extension	75mm	75mm	75mm	75mm

**specifications depend on material guidelines of the IMSBC norm*