ATTRI AS ATTRI AS/MFC

Description/Overview
Any powder, when moved, is subjected to attrition phenomena, leading to the undesirable formation of fines. The measurement of attrition resistance is therefore indispensable, in particular for powders used as catalysts in both fluid bed and slurry reactors.

ATTRI-AS is an instrument for measuring the attrition resistance of any type of powder. It is based on the air jet principle and strictly follows the ASTM standard method D5757. Nonetheless, it can also be used according to different procedures. Typical powders to be measured are in the range 10 - 180 micrometers.

(ES) Equipements Scientifiques SA - Département Bio-tests & Industries - 127 rue de Buzenval BP 26 - 92380 Garches
Tél. 01 47 95 99 90 - Fax. 01 47 01 16 22 - e-mail: bio@es-france.com - Site Web: www.es-france.com

Attri - Glass Tube

ATTRI-AS is composed of a special stainless steel attrition tube, where the powder is stressed by high-speed air jets, coming from precision-drilled sub-millimeter nozzles. They provide an accelerated simulation of the attrition phenomenon occurring in reality during a period of months. Ahead of the attrition tube a glass-made settling chamber allows to look at the powder during the treatment. Both the air pressure and the flow rate measurement instruments are located before the attrition tube. Finally, a fines collection filter is located ahead of the settling chamber. The air flow can be humidified through a water saturator. The percentage loss of fines after a specified time of treatment gives a measurement of the attrition resistance.

ATTRI-AS also comes in an advanced configuration (**ATTRI-AS/MFC**), featuring a mass flow controller (MFC) and allowing an even more accurate measurement of the air flow.

The ATTRI series is compliant with CE specifications.

Attri - Attrition Tube Air Inlet

Attri - Mass Flow Controller

Attri - Filtering System

Technical data

Current	1 A
Voltage	220 V
Frequency	50 Hz
Weight	50 kg
Size (Width x Height x Depth)	450 x 1900 x 500 mm
Color	white
Timer with alarm	included
Sample size range	10-180 micrometers
Compliant with ASTM standard D5757	
Flow rate meter	Rotameter (ATTRI-AS) Mass flow controller (ATTRI-AS/MFC)

110V/60Hz version available on request

(ES) Equipements Scientifiques SA - Département Bio-tests & Industries - 127 rue de Buzenval BP 26 - 92380 Garches
Tél. 01 47 95 99 90 - Fax. 01 47 01 16 22 - e-mail: bio@es-france.com - Site Web: www.es-france.com