

Typical Data

Grade 41 – Ashless Quantitative Filter

The fastest ashless filter and recommended for analytical procedures involving large particles or gelatinous precipitates such as iron or aluminium hydroxides. Also used in quantitative air pollution analysis for determining gaseous compounds at high flow rates.

Particle Retention Liquid¹ (µm):	20-25
Air Flow Rate^{2*} (s/100ml/in²):	3.4
Ash³ (%):	0.007
Typical Thickness⁴ (µm):	215
Basis Weight⁵ (g/m²):	84
Wet Burst⁶ (psi):	0.3
Dry Burst⁶ (psi):	10
Tensile M/D Dry⁷ (N/15mm):	27.2

¹ Particle retention rating at 98% efficiency.

^{2*} Air flow rate determined with Gurley Densometer with 5oz and 1in² (6,45cm²) test area.

³ Ash is determined by ignition of the cellulose filter at 900°C in air.

⁴ Thickness at test pressure of 53kPa.

⁵ Grammage defines weight per unit area, preferably of circular sheets of area 100cm².

⁶ Wet Burst as well as Dry Burst is determined with filter test area of 1in² (6,45cm²) which is made to burst by applying an increasing pressure. 1psi is equivalent to 0,069 bar.

⁷ Tensile M/D Dry is determined with strips of 15mm x 180mm which were subjected to an increasing vertical load.

Typical data only – does not represent a product specification.