

FILL POWER

METHOD NUMBERS: IDFB PART 10B, EN 12130, JIS 1903, GB/T 10288, FZ/T 80001



Steam Conditioning

■ WHAT IS IT?

Fill power is a volumetric measurement which is used to determine the approximate insulation value of down and feather fillings. It measures the volume a specific amount of down occupies, when compressed with a specific amount of weight.

■ HOW IS IT DONE?

1. Samples are conditioned according to one of the following standardized methods:
 - No conditioning
 - Tumble Dry Conditioning (Europe)
 - Steam Conditioning (IDFB, Japan, USA)
 - Water Rinse (helps determine fill power after laundering)
 - Oven Bake (Chinese)
2. Samples are placed in a climate controlled room for a set period of time.
3. A specific amount of down is weighed, compressed, and measured for volume according to the test method being performed.

■ WHAT DO THE NUMBERS MEAN?

Fill Power is reported in either volumetric units (cubic inches per ounce or cubic cm per gram), or with the volume as a height measurement taken from the fill power device (mm or cm). Using either measurement, the numbers are a representation of volume; and the greater the volume, the better the down will insulate.

Common values for fill power range from 300 to 900 cubic inches per 30g. (75mm-225mm per 30g).

■ WHY DO IT?

Fill Power is one of the best performance metrics used to distinguish different qualities of down and feathers. Many products use fill power in marketing to differentiate one product from another. Also, many labeling standards have Fill Power requirements.

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IDFL

info@idfl.com

+1 801 467 7611

IDFL EUROPE

europe@idfl.com

+41 52 765 1575

IDFL CHINA

china@idfl.com

+86 571 8273 6561

IDFL TAIWAN

taiwan@idfl.com

+886 2 2259 1178

www.idfl.com