

### ProFiller 3600



	Powder Type		
	Coarse	Granulated / Semi-Coarse	Fine <sup>1</sup>
Capsule Fill Weights Comply to USP/EP	Yes	Yes	Yes
Average Capsule Weight USP/EP method within % of Target Weight	±1%	±1%	±1%
All 300 Capsules (weighed individually) are within x% of Target Weight <sup>3</sup>	±5%	±6%	±7.5%
% of Capsules weighed individually			
Within: ± 3% of target weight	95%	95%	70%
Within: ± 5% of target weight	100%	100%	90%
Within: ± 7.5% of target weight	100%	100%	100%

**Conclusions:**

- Weight Variation complies with USP/EP methods. Using USP/EP method fill weights are within ± 1-3% of average weight<sup>2</sup>.
- Typically all 300 capsules in a cycle are within ± 5-7.5% of the target weight<sup>2</sup>.

**Methodology:**

- Target weight of powder +1% was pre-weighed.
- Each powder was filled at least 4 times by different operators.
- All powders tamped 1-3 times.
- Fill weight analysis using net fill weight (capsule weight was subtracted).

<sup>1</sup> To achieve these results, fine powders require additional tamps, taps or vibration and may require use of excipients.

<sup>2</sup> Results will vary based on powder, number of tamps or taps and/or vibration time and intensity. Excipients may be required for some powders. Fill weight and capsule size also influence results.

<sup>3</sup> For fluid-like powders that flow out of the capsule during tamping or very fine powders (particle size below 200 mesh), 100% of capsules may be within ±10% of the target weight.

### ProFiller 3700 + 3800



	Powder Type		
	Coarse	Granulated / Semi-Coarse	Fine <sup>1</sup>
Capsule Fill Weights Comply to USP/EP	Yes	Yes	Yes
Average Capsule Weight USP/EP method within % of Target Weight	±1%	±1%	±1%
All 300 Capsules, weighed individually, within x% of Target Weight <sup>3</sup>	±4%	±5%	±7%
% of Capsules weighed individually			
Within: ± 3% of target weight	95%	95%	80%
± 5%   "   "	100%	100%	90%
± 7.5% "   "	100%	100%	100%

**Conclusions:**

- Weight Variation complies with USP/EP methods. Using USP/EP method fill weights within ± 1-3% of average weight<sup>2</sup>.
- Typically all 300 capsules in a cycle within ± 4- 7% of target weight<sup>2</sup>.

**Methodology:**

- Target weight of powder +1% was pre-weighed.
- Each powder was filled at least 4 times by different operators.
- All powders tamped 1-3 times.
- Fill weight analysis using net fill weight (capsule weight was subtracted).

<sup>1</sup> To achieve these results, fine powders require additional tamps or vibration and may require use of excipients.

<sup>2</sup> Results will vary based on powder, number of tamps and/or vibration time and intensity. Excipients may be required for some powders. Fill weight and capsule size also influence results.

<sup>3</sup> For fluid like powders that flow out of the capsule during tamping or very fine powders (particle size below 200 mesh) 100% of capsules may be within ±10% of the target weight.

