

## QPN 300

**Application:** Industrial Pure-White Modified Calcium Bentonite

### TYPICAL ANALYSIS

<b>General Description</b>	QPN-300 is a high cation exchange capacity, pure white, swelling and gelling activated Calcium Bentonite										
<b>Functional Use</b>	Household and industrial applications where moderate swelling and brilliant whiteness are specifically desired.										
<b>Purity</b>	Hydrous aluminium silicate comprised principally of the clay mineral montmorillonite. Contains minor amounts of feldspar, calcite, and quartz.										
<b>Chemical Formula</b>	Diocahedral smectite, an expanding layer silicate: $(\text{Na,Ca})_{0.33}(\text{Al}_{1.67}\text{Mg}_{0.33})\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot n\text{H}_2\text{O}$										
<b>Moisture</b>	Maximum 16% as shipped										
<b>C.E.C</b>	70 – 80 meq / 100g.										
<b>Brightness</b>	L = 86 min a = -1.4 to +1.2 b = 7 max										
<b>Dry Particle Size</b>	Minimum 1% retained 300 mesh (53 micron).										
<b>Wet Particle Size</b>	Maximum 0.5% grit content retained on 53 micron (wet sieve)										
<b>Elemental Analysis (Moisture Free)</b>	<table border="0"> <tr> <td>SiO<sub>2</sub> 68.30%</td> <td>Al<sub>2</sub>O<sub>3</sub> 16.92%</td> </tr> <tr> <td>Fe<sub>2</sub>O<sub>3</sub> 1.34%</td> <td>MgO 3.31%</td> </tr> <tr> <td>CaO 0.97%</td> <td>Na<sub>2</sub>O 0.85%</td> </tr> <tr> <td>K<sub>2</sub>O 1.05%</td> <td>LOI 7.06%</td> </tr> <tr> <td>Cristobalite 5% max</td> <td>Quartz 2% max</td> </tr> </table>	SiO <sub>2</sub> 68.30%	Al <sub>2</sub> O <sub>3</sub> 16.92%	Fe <sub>2</sub> O <sub>3</sub> 1.34%	MgO 3.31%	CaO 0.97%	Na <sub>2</sub> O 0.85%	K <sub>2</sub> O 1.05%	LOI 7.06%	Cristobalite 5% max	Quartz 2% max
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<b>Packaging</b>	Multi-wall paper bags (25 kg), Big Bags or bulk										

The information and data contained herein are believed to be accurate and reliable. AMCOL Specialty Minerals makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information.