Technical Data Sheet

WPO 391636

General Purpose Granular

AMERICAN COLLOID COMPANY
Industrial Chemical Division

Revised 1/95

VOLCLAY GPG 30

General Description: Granular sodium bentonite with an average particle size ranging between 20 and 70 mesh.

Functional Use: Multipurpose product noted for rapid dispersion in water. Employed in a wide variety of industrial applications. Volclay GPG-30 is commonly used by domestic contractors for remedial waterproofing.

Purity: Hydrous aluminum silicate comprised principally of the clay mineral montmorillonite. Montmorillonite content 90% minimum. Contains small portions of feldspar, biotite, selenite, etc.

Chemical Composition: Typical Analysis (moisture free)

SiO_2	63.02%
Al_2O_3	21.08%
Fe_2O_3	3.25%
FeO	0.35%
MgO	2.67%
Na_2O	2.57%
CaO	0.65%
H_2O	5.64%
Trace Elements	0.72%

Chemical Formula: A tri-layer expanding mineral structure of approximately:
$(Al, Fe_{1.67}, Mg_{0.33})\ Si_4O_{10}\ (OH_2)\ Na{+}Ca{++}_{0.33}$

Moisture Content: Maximum 12% as shipped

Dry Particle Size: Maximum 1% retained on 16 mesh
Maximum 35% retained on 20 mesh
Maximum 3.5% passing 70 mesh
Maximum 1% passing 200 mesh

Wet Particle Size: Minimum 94% passing 200 mesh (74 microns)
Minimum 92% passing 325 mesh (44 microns)

pH: 5% suspension 8.0 to 10.5

Viscosity: 6.25% solids - 8-30 cps

Free Swell: Minimum 24 millliters per ~~1~~ 2 gram of clay

Packaging: 100-pound or 50-pound multi-wall paper bags, or bulk.

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