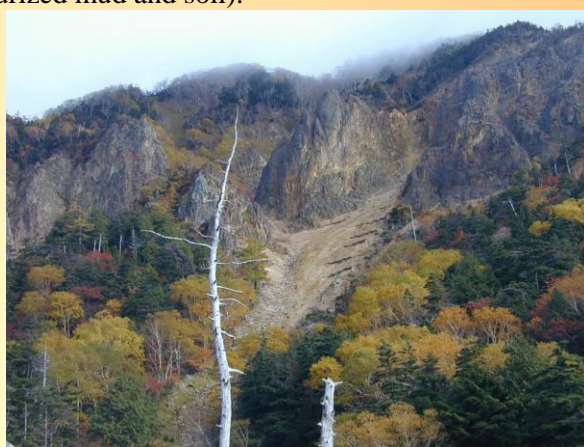


Hybrid Clay

(High Swelling Bentonite)

Hybrid Clay is high quality bentonite engineered to have high swellability and high viscosity by carefully selecting and controlling excellent quality materials. In regard to applications, Hybrid Clay exhibits outstanding performance “as a muddy water material (viscosity, water-blocking, suppressing separation in the muddy water shielding method,” “as a mud additive in the pressurized mud and soil shielding method,” and “as an impervious filler in the seepage control method.” Further, Hybrid Clay is high swelling bentonite that can be diversified in various jacking methods (dense mud, muddy water, pressurized mud and soil).



Features of Hybrid Clay

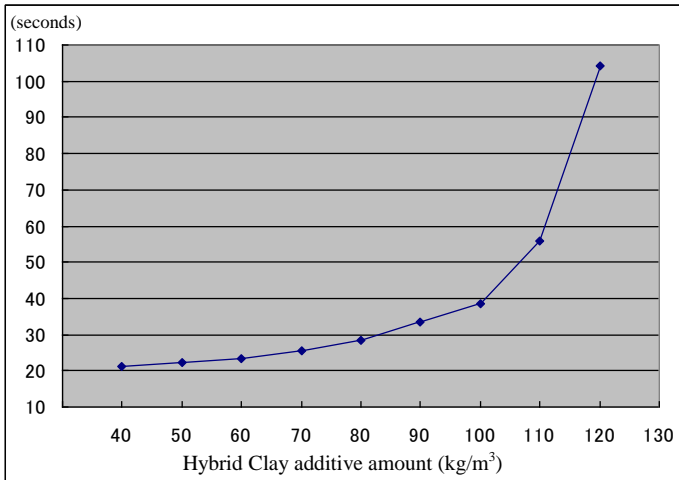
- *High swelling and thickening performance along with excellent low dehydration performance.
- *Exhibits further viscosity and swellability with combined use together with a thickening agent such as TG-CELL and TG Gel.
- *Excellent running cost and excellent economic efficiency.

Chemical Composition of Hybrid Clay

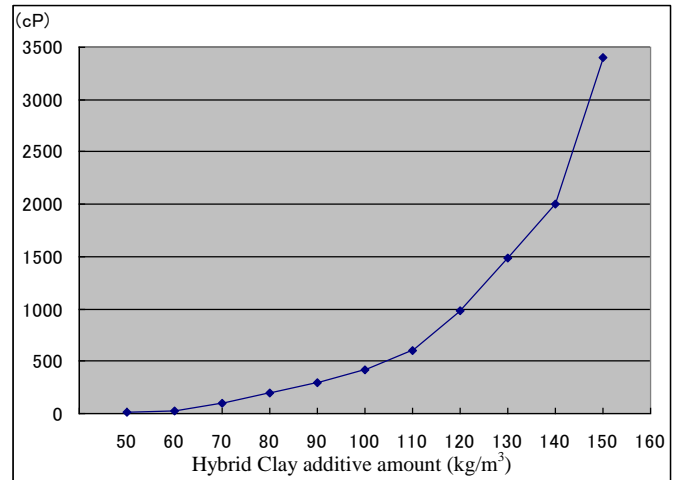
SiO ₂	AL ₂ O ₃	Fe ₂ O ₃	MgO	CaO	Na ₂ O	K ₂ O	Ig-Loss
64.0	17.2	4.4	2.8	2.7	2.4	1.2	4.5

Viscosity of Hybrid Clay

Funnel viscosity



Viscosity according to type B viscometer (30 rpm)



Properties of Hybrid Clay

Appearance	Pale yellow powder
True specific gravity	2.6 ±1.0
Bulk specific gravity	0.55 – 0.85
pH	9.5 – 10.8 (2% dispersed solution)
Swellability	20 ml/2g or more
Moisture content	12% or less

Applications of Hybrid Clay

Shielding	Muddy water, slurry materials
Grouting	Water-blocking, tunnels, shielded backing of sewage systems, etc.
Auger construction	Various prefabricated piling methods
Blanketing	Artificial lakes
Vegetation method	Embankment protection
Seepage control	Impervious wall filler

Hybrid Clay Packaging

- * 25 kg bag
- * 1 t flexible container bag
- * 10 t tank lorry

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