

Special Bentonite

# TG Bond

TG Bond is bentonite used primarily when performing the pressurized muddy water shielding method and can also be used in various applications. TG Bond is bentonite blended with a base of high quality sodium bentonite. When performing the pressurized muddy water shielding method, TG Bond is able to create good quality muddy water by being used in combination with TG Seal (thickening agent).



## *Features of TG Bond*

### <Rationalization of Facilities>

Conventionally, when performing the pressurized muddy water shielding method, there were cases that would require the construction of two silos for clay and bentonite. TG Bond makes it possible to combine these into a single silo which enables effective utilization of land on the site.

### <Stability of Muddy Water>

By combining use with TG Seal (thickening agent), control of muddy water with a low specific gravity becomes easier while also making it possible to form good quality mud films.

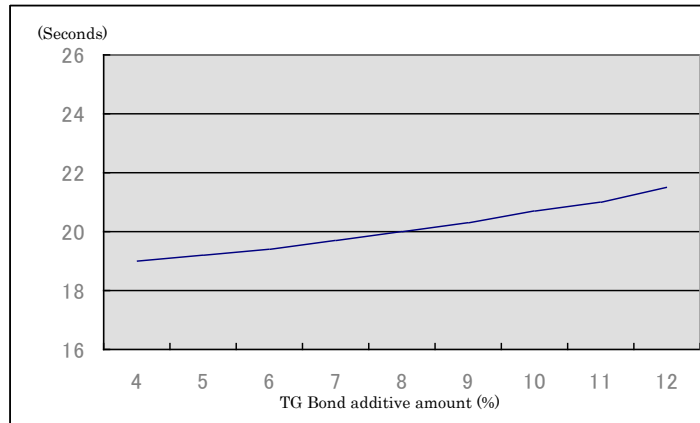
### <Economic>

TG Bond has economic advantages in high viscosity muddy water plans and being able to rationalize facilities also leads to cost reduction.

## Chemical Composition of TG Bond

SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	CaO	MgO	Fe <sub>2</sub> O <sub>3</sub>	Ig-Loss
60 – 72	17 – 22	1.0 – 1.5	0.8 – 1.5	3.5 – 5.5	5.0 – 8.0

### Funnel viscosity of TG Bond



## Properties of TG Bond

True specific gravity	2.5 - 2.6
pH	8 - 10
Particle size	250 mesh residue 10% or less
Funnel viscosity	20% solution 20 seconds or more
Moisture content	10% or less

## Applications of TG Bond

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

### TG Bond Packaging

- \* 1 t flexible container bag
- \* 10 t tank lorry

## Technica Goudou Co., Ltd.

(Head Office)  
 12<sup>th</sup> Floor, Higashi Kobe Center Bldg.  
 8-6-26 Motoyama-Minamimachi, Higashi Nada-ku, Kobe, Hyogo 658-0015  
 Phone: 81-78-436-0280 / Fax: 81-78-451-0257

(Tokyo Sales Office)  
 1<sup>st</sup> Floor, Ikebukuro FN Bldg.  
 3-9-10 Higashi Ikebukuro, Toshima-ku, Tokyo 170-0013  
 Phone: 81-3-6907-2566 / Fax: 81-3-3985-8611

(Sendai Sales Office)  
 9<sup>th</sup> Floor, Izumi Chuo Bldg.  
 1-16-6 Izumi Chuo, Izumi-ku, Sendai, Miyagi 981-3133  
 Phone: 81-22-375-3981 / Fax: 81-22-375-3983

(Kobe Laboratory)  
 Complex D, Room 405  
 1-2-25 Wadayamadori, Hyogo-ku, Kobe, Hyogo 652-0884  
 Phone/Fax: 81-78-671-1190

Website: <http://www.technica-goudou.co.jp/>