

Muddy water adjustment material

TG Hauling W

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Slurry type pipe jacking method conventionally made muddy water by using clays, bentonite and CMC. TG Hauling W is muddy water material which was developed using polymer compound as an alternative to these materials.

Characteristic

- ◆ Muddy water using TG Hauling W is possible to reduce lost circulation and improves the stabilizing effect of the cutting face because it has excellent mud film-forming effect.
- ◆ The load of equipment such as the pump will be reduced because TG Hauling W can use at a low specific gravity.
- ◆ Since the amount to be used is small, can improve the space saving and work efficiency.
- ◆ TG Hauling W is safe materials that do not contain harmful substances.

Properties and Package

Main Component	Cellulose derivatives, Inorganic silicate
pH	8.5 ~10.0
Specific Gravity	2.5 ~ 2.7
Appearance	Light yellow powder
Package	20kg bags

Comparison of initial muddy water composition

Type	Basic formulation	TG Hauling W
Amount of Blend materials / 1000L	Clay 300 kg Bentonite 50 kg CMC 1 kg Water 859 L	TG Hauling W 11 kg Water 995 L
Specific Gravity	1.21	1.006
Value of Funnel Viscosity	35 s	55 ~ 60 s
Amount of filtered water	17.4 ml	13.8 ml

Compounding comparison table of mud additive per 1m³

Clay + Bentonite type Additive						TG Hauling W		TG Hauling W+Bentonite			TG Hauling W+Clay		
Concentration			Amount of Blend materials			Amount of Blend materials		Amount of Blend materials			Amount of Blend materials		
Conc. (%)	Clay (%)	Bentonite (%)	Clay (kg)	Bentonite (kg)	water (L)	TG Hauling W (kg)	Water (L)	TG Hauling W (kg)	Bentonite (kg)	water (L)	TG Hauling W (kg)	Cray (kg)	Water (L)
10	—	10	—	96	962	5	998	5	—	998	5	—	998
15	—	15	—	142	943	8	996	8	—	996	8	—	996
20	—	20	—	185	926	11	995	11	—	995	11	—	995
25	—	25	—	227	909	14	994	10	25	986	14	—	994
30	—	30	—	268	893	16	993	10	50	976	15	30	981
35	10	25	88	219	877	16	993				15	60	969
40	15	25	129	216	862	18	992				15	120	945
45	20	25	169	212	847	19	991	10	75	966	15	150	933
50	25	25	208	208	833	20	991				20	60	967
55	30	25	246	205	820	21	991				20	120	943
60	40	20	323	161	806	21	991	15	50	973	20	60	967
65	45	20	357	159	794	22	990				20	120	943
70	50	20	391	156	781	23	990						
75	55	20	423	154	769	24	989						
80	60	20	455	152	758	25	989						

Handling Precautions

- ◆ Please do not touch other than construction officials.
- ◆ If the product was leak, please remove immediately because it becomes slippery by contacting with water.
- ◆ At the time of work, please use protective glasses and dust mask or the like.
- ◆ In case of skin contact, wash skin with soap and water. Please seek medical advice if necessary.
- ◆ In case of inhalation, please gargle with water or warm water. Please seek medical advice if necessary.
- ◆ Please entrusted to industrial waste professional if you want to discard this product.



Technica Goudou Co., Ltd.

8-6-26-12F, Motoyamaminami-machi, Higashinada-ku, Kobe-shi, Hyogo
658-0015 Japan

TEL: 81-78-436-0280 FAX: 81-78-451-0257

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