

MATERIAL SAFETY DATA SHEET

Material: SODIUM BENTONITE FOR FOUNDRY, DRILLS

- Section I. Identification of the Substance and of the Company
- Product Name:

SODIUM BENTONITE FOR FOUNDRY, DRILLS
- Product use:

Casting production, drilling fluids, soil sealing.
- Country of origin:

Ukraine
- Distributor:

GloryWinSun OLEKSANDR TUPYTSIA
- Headquarter:

Stasin 67, 21-030, POLAND
- Storage & Logistic:

Stasin 67, 21-030, POLAND
- Phone:

+48 733 787 564 (Aleksander Abramov)
- Email:

kontakt@ingritech.pl
- Website

ingritech.pl



○ Section II. Physical and Chemical Properties

№	Parameter	Ukrainian Bentonite
1	Mass fraction of SiO ₂ , %	58.8
2	Mass fraction of TiO ₂ , %	1.14
3	Mass fraction of Al ₂ O ₃ , %	17.58
4	Mass fraction of Fe ₂ O ₃ + FeO, %	6.3
5	Mass fraction of MnO, %	0.03
6	Mass fraction of CaO, %	2.16
7	Mass fraction of K ₂ O + N ₂ O, %	0.06 – 0.29
8	Mass fraction of P ₂ O ₅ , %	0.05
9	Mass fraction of SO ₃ , %	0.05 – 0.03
10	Mass fraction of CO ₂ , %	0.19
11	Mass fraction of MgO, %	2.17
12	Loss on ignition (LOI), %	9.7
13	Moisture content, %	6.0 – 12.0
14	Compressive Strength (GCS)	min 0.9 kg/cm ² (≈8.83 N/cm ²)
15	Thermal stability, min	0.3
16	Montmorillonite content, %, min	50.0
17	Water absorption, max	4.3
18	Bulk density, g/cm ³ , min	1.0
19	Fraction 0 – 0.071 mm, %	75.0

Tipe DSTU 28177-89	Resist. comp., Pa (kgf/cm ²) ≥	Tensile strength at break in the condensation zone must be a minimum of Pa (kgf/cm ²).	Termal estabilidad, mín.
Π1T1	88 260 (0,9)	2 750 (0,028)	0,6
Π1T2	88 260 (0,9)	2 750 (0,028)	0,3
Π1T3	88 260 (0,9)	2 750 (0,028)	-
Π2T1	88 260 (0,9)	1 960 (0,020)	0,6
Π2T2	88 260 (0,9)	1 960 (0,020)	0,3
Π2T3	88 260 (0,9)	1 960 (0,020)	-
Π3T1	88 260 (0,9)	1 470 (0,015)	0,6
Π3T2	88 260 (0,9)	1 470 (0,015)	0,3
C1T1	68 650 (0,7)	2 750 (0,028)	0,6
C1T2	68 650 (0,7)	2 750 (0,028)	0,3
C2T1	68 650 (0,7)	1 960 (0,020)	0,6
C2T2	68 650 (0,7)	1 960 (0,020)	0,3
C3T1	68 650 (0,7)	1 470 (0,015)	0,6
C3T2	68 650 (0,7)	1 470 (0,015)	0,3
M1T1	49 030 (0,5)	2 750 (0,028)	0,6
M1T2	49 030 (0,5)	2 750 (0,028)	0,3
M2T1	49 030 (0,5)	1 960 (0,020)	0,6
M2T2	49 030 (0,5)	1 960 (0,020)	0,3
M3T1	49 030 (0,5)	1 470 (0,015)	0,6
M3T2	49 030 (0,5)	1 470 (0,015)	0,3

- Strong grades ("Π") have the highest compressive strength (0.9 kgf/cm²) and high tensile strength.
- Medium-strength grades ("C") have slightly lower strength (0.7 kgf/cm²) and average tensile strength.
- Low-strength grades ("M") have the lowest strength (0.5 kgf/cm²) and the lowest tensile strength.
- Thermal stability varies from 0.3 to 0.6, which affects the behavior of the clay when heated.

○ Section III. Fire and Explosion Hazard Information

No explosion hazard.

○ Section IV. Stability and Reactivity

Chemical Stability: Stable

○ Section V. Health Hazards Data

Potential Health Effects:

- Eye: No hazard
- Skin: No hazard
- Ingestion: No hazard

○ Section VI. First Aid Measures

No hazard

○ Section VII. Exposure Controls

Engineering Controls: Stable

○ Section VIII. Personal Protection

Use with protection equipment.

○ Section IX. Handling

Normal running.

○ Section X. Storage

The product must be kept dry.

○ Section XI. Transport Information

Transport using tarpaulin utility vehicle or utility van.

Disclaimer/Statement of Liability

The information in this MSDS was obtained from sources that are believed to be reliable; however, the information is provided without any representation or warranty, express or implied, regarding its accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of this product.