

STÜWAMIX® –drilling fluid

The economic alternative for all horizontal drilling methods...

What is Stüwamix®?...

An innovative drilling fluid consisting of a mixture of sodium bentonite and a modified natural polymer.

Where can I apply Stüwamix®?...

This drilling fluid can be applied for all kinds of horizontal drilling. It may be used in cohesive as well as in non-cohesive formations. The rheological properties of the drilling parameters required may vary from 20–35kg/m³.



STÜWAMIX® prevents swelling of cohesive formations thanks to its inhibitors.



What about a constant quality?

Our quality control maintains very high demands to the product and performance. The product is submitted to a permanent control of its standard properties in regards of marsh viscosity and swelling.

This is guaranteed by our QS-management according to ISO 9001.

Further characteristics of STÜWAMIX®

Our drilling fluid can be stocked in dry condition. The viscosity of the suspension is reduced with increasing temperatures. There is almost no sensitive reaction to frost or water hardness. After finishing the drilling operation, STÜWAMIX® can simply be pumped out without any additional activation. The product was examined by the chamber of agriculture Weser Ems.

Result:

A risk for human beings and environment is excluded at duly application



The STÜWAMIX® –

Recommendation of application at one glance...

STÜWAMIX® has a high gel structure. After a longer interruption of circulation a short rotation of the the drill string before starting the pump is recommended in order to change the gel structure into sol.



Our recommendation of application in different soil structures: Please note that these data are based on laboratory tests and on our practical experience. We guarantee that these values comply with our best knowledge and no liability can be linked to it.

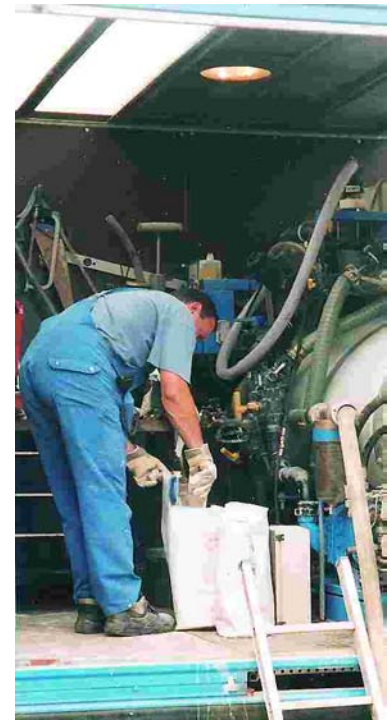
How to mix Stüwamix®?...

This drilling fluid includes the components sodium bentonite, and modified natural polymer. For this reason Stüwamix must be mixed under pressure through an injector. The advantage of this drilling fluid is its immediate use.

Which pH – value must water have?...

Stüwamix drill fluid is mixed with neutral water at a pH–value of approx. 6,5 –7,5. Should only „acid“ water be available then it is recommended to treat the

water with approx. 2,5 kg/m³ of sodium carbonate (Soda) and to circulate for 10 minutes. The pH–value should then reach 9 – 10



	highly consolidated, claystone	Cohesive formation, clay, sticky clay, silt,	sandy formations, sand, fine to very fine	Non-cohesive formations, sand coarse to very coarse	Extremely non-cohesive formations, peat, mud, coarse gravel
Kg/m ³	22,5	25	26–29	30–32	33–35
Marsh Funnel viscosity	51	67	90–110	150–180	>200

Do you wish further parameters?
Give us a call, it's our pleasure to consult you.