



## Modiplex MH

## Product Information

*Carrying Capacity & Gel Strength Enhancer*

**Description:** *Modiplex MH* is a special additive for the product *Phrikolat Bentonit Typ W*. *Modiplex MH* is a mixture of various inorganic and organic additives and is specifically designed for the use of Horizontal Directional Drilling in particularly coarse-grained soils. The special rheology of the system *Bentonit Typ W* and *Modiplex MH* ideally meets the requirements for a drilling fluid when drilling in gravel, boulders or quicksand.

*Modiplex MH* should be used for best results as a sole additive for the product *Bentonit Typ W*.

When used with other bentonites adverse effects on the properties may occur. *Modiplex MH* is also compatible with OCMA Bentonite and *Phrikolat Bentonit Typ W - Premium*.

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**Applications:** Horizontal Directional Drilling (HDD)

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**Properties:** Drilling Fluid Systems containing *Modiplex MH* show exceptionally high carrying capacity while still good pumpability (low PV).

*The Modiplex MH* system builds at rest very fast high gel strengths and thus prevents settling and sedimentation even of relative coarse cuttings.

By the high initial Gel Strength the *Modiplex MH* system stabilized also quicksand and loose, cohesions less granular soils with only a small proportion of fines.

The *Modiplex MH* system produces an extremely shear thinning rheology and thereby considerably reduces the risk of mud break outs. Systems with *Modiplex MH* can be easily recycled with shakers.

Systems of bentonite + *Modiplex MH* are sensitive to strong anionic polymers (PAC, PHPA, CMC, XC, etc.). If required the reduction of the filtrates can be done effectively by the addition of 1-4 kg Moditrol.

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**Recommended Concentrations:**

Bentonit Typ W:	33 – 37	kg/m <sup>3</sup>
Bentonit Typ W – Premium:	40 – 45	kg/m <sup>3</sup>
OCMA Bentonite:	45 – 50	kg/m <sup>3</sup>
<i>Modiplex MH</i> : for all applications	2,5	kg/m <sup>3</sup>

Do not use Soda Ash for conditioning the make-up water !

Mixing Time: 10 minutes for Bentonite + 15 minutes after adding *Modiplex MH*

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**Packing:** 10 kg multiple paper-bags, 500 kg per pallet