



# BENTONITE ANALYSIS REPORT

Date : 10/08/09

Area : Turkey, KARABIGA

From : SNIC

Aspect : color yellow

Report N° : BENA 1212

Analysis date : 19/08/09

Diffusion : DLEG, MMER

Application : Foundry

Denomination : IKO Bond D

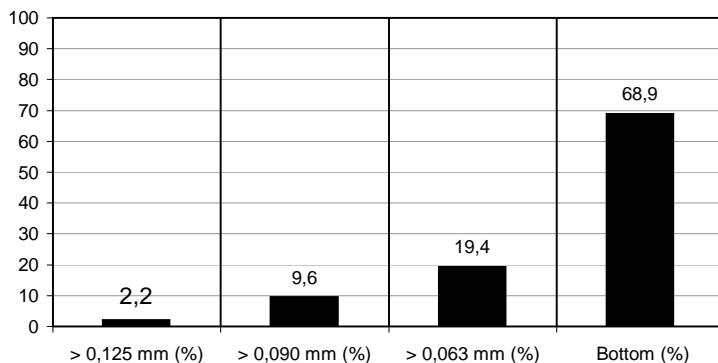
Batch : 04.09

Provider : S&amp;B Industrial Minerals AS

## PHYSICALS TESTS

Moisture	9,41 %
Methylene blue (0,5g)	386 mg/g
Montmorillonite contents	94,27 %
MB after 2 h/550°C	290 mg/g
Degradation MB ( 2h/550°C )	24,9 %
Carbonates ( CaCO <sub>3</sub> )	5,45 %
Carbonates ( CO <sub>3</sub> )	3,27 %
Swelling index	14,50 ml/g
pH	10,38
Conductivity	839 µS/cm
Ash	91,57 %
Carbon	0,76 %
Sulphur	0,29 %

## GRAIN SIZE *Norme NF ISO 2591-1*



## DIN TESTS (VDG P69) ( 5 % bentonite )

Moisture	1,9 %
Compactibility	45,0 %
Green compression strength	8,30 N/cm <sup>2</sup>
Shear strength	2,40 N/cm <sup>2</sup>
WTS	0,31 N/cm <sup>2</sup>
Dry compression strength	14,90 N/cm <sup>2</sup>

## DIN TESTS after 2H at 550°C (VDG P69) ( 5 % bentonite )

Moisture deg.	2,2 %
Compactibility deg.	45,0 %
Green compression strength deg.	6,50 N/cm <sup>2</sup>
Shear strength deg.	1,50 N/cm <sup>2</sup>
WTS deg.	0,20 N/cm <sup>2</sup>

## COMMENTS

Boat " ANNA M " - and Thermal analysis