

BENTOSUND 120E

BENTOSUND 120E is a natural sodium bentonite which, after a brief dispersion in water, shows a rheologic reaction that guarantees highly colloidal suspensions which have excellent suspensive waterproofing and lubricating characteristics. Its usage is recommended for the preparation of every drilling fluid (piles, diaphragm walls and tunnelling), mixtures for waterproof vertical cut-off walls, for setting-up of Earth Electrode systems and for the installation by pipe-jacking of concrete pipes.

| GENERAL AND RHEOLOGICAL CHARACTERISTICS | |
|--|--------------|
| Wet screen analysis (residue on 200 mesh) | 0,5 – 1 % |
| Moisture | 11 – 13 % |
| Liquid limit | > 500 % |
| Plasticity limit | 80 – 100 % |
| Plasticity index | > 400 % |
| Physical state | Fine powder |
| Colour | Brown |
| Bleeding after 24 hours | 0 |
| Fluid loss (30' at 100 psi) | 13 – 15 ml |
| Ph | 9 |
| Cake | 1,5 – 2,0 mm |

| | 30 kg/m³ | 40 kg/m³ | 50 kg/m³ | 60 kg/m³ |
|---------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Apparent viscosity (cP) | 7 | 13 | 18 | 26 |
| Plastic viscosity (cP) | 5 | 6 | 7 | 9 |
| Yield point (lbs/100 sq.ft.) | 4 | 14 | 22 | 34 |
| Gel 10 s (pa) | 2 | 4 | 9 | 17 |
| Gel 10 min (pa) | 3 | 7 | 14 | 31 |
| API filtrate (cm ³) | 18,5 | 16,2 | 14,5 | 12,8 |
| Marsh Funnel (s/l) | 35 | 40 | 47 | 85 |
| pH | 8,8 | 8,8 | 9 | 9 |

Recommended storage condition: keep in a dry place.
Shelf life (on recommended storage condition): unlimited.

All information contained here in is believed to be accurate but is not warranted. It doesn't represent any assurance of properties and fitness for use of the product. Above mentioned specifications may be changed without any notice. Updating Apr '04



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WITH QUALITY SYSTEM
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| Liquid limit | > 500 % |
| Plasticity limit | > 80 – 100 % |
| Plasticity index | > 400 % |
| Physical state | Fine powder |
| Colour | Brown |
| Marsh viscosity (4 % distilled water suspension) | 40 “ |
| Bleeding after 24 hours | 0 |
| Fluid loss (30' at 100 psi) | 13 – 15 ml |
| pH | 9 |
| Cake | 1,5 – 2,0 mm |

| COMPOSITION | |
|--------------------------------|---------|
| SiO ₂ | 53,06 % |
| Al ₂ O ₃ | 17,03 % |
| TiO ₂ | 3,02 % |
| Fe ₂ O ₃ | 11,61 % |
| P ₂ O ₅ | 0,23 % |
| MnO | 0,1 % |
| MgO | 3,12 % |
| CaO | 1,35 % |
| K ₂ O | 0,06 % |
| Na ₂ O | 2 % |
| Loss of ignition | 8,42 % |

| MINERALOGICAL COMPOSITION | |
|----------------------------------|------|
| Montmorillonite | 99 % |
| Quartz | 1 % |

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