

HUNTSMAN TE 44236

TECHNICAL DATA SHEET

*INTRODUCTION

HUNTSMAN TE 44236 is a compounded polyol blend. It is designed for the production, in a continuous process, of semi-flexible rigid polyurethane foam which is especially recommended for insulation of pipelines. Expansion of the foam is achieved by using carbon dioxide, generated by the reaction between the isocyanate and water. Appropriately processed foam based on HUNTSMAN TE 44236 exhibits excellent long term thermal ageing characteristics. If it is intended to use this product in a different application, Huntsman UAE Polyurethanes Technical Service Centre should be contacted for advice

* COMPONENT DATA

| | Unit | Polyol Component | Isocyanate Component | Standard Method |
|-------------------|-------------------|--------------------|-----------------------|-----------------|
| Appearance | - | Pale yellow liquid | Light yellow-brownish | Visual |
| Density (25°C) | g/cm ³ | 1.18 | 1,23-1,24 | DIN 51 757 |
| Viscosity (25°C) | mPa.s | 4050 | 210 | ASTM D 4878-03 |
| NCO percentage | % | - | 30-31,5 | ASTM D 5155 B |
| Storage Stability | month | 6 | 6 | |

*STORAGE & HANDLING

The storage life of this product referred to in this data sheet is provisionally 3 months from the time of the production date when stored at 25 deg.C (storage life at the customer). It should be kept sealed when not in use as it is hygroscopic in nature.

*RISKS AVAILABLE

The isocyanate component irritates the respiration system, eyes and skin. This can have allergic reactions if inhaled or when comes in contact with skin. The required measurements indicated in the safety data sheet should be noted during handling of isocyanate. The same procedure should also be applied during handling of the A system (polyol) considering the risk available.

*LABORATORY TEST DATA (25°C)

A foam produced in a small scale laboratory cup & bag test, at a stirring speed of 4000 rpm using the mixing ratio below, will have the reactivity listed, also below.

| | Unit | Value |
|-------------------------------------|-------------------|---------|
| HUNTSMAN TE 44236 | gr | 100 |
| HUNTSMAN CAT TE 44205 (catalyst) | gr | 8 |
| HUNTSMAN 200 (Isocyanate Component) | gr | 137 |
| A:B Ratio | Based on weight | 100:145 |
| Temperature of the components | °C | 21 |
| Cream time | s | 10-14 |
| Gel time | s | 39-43 |
| Free rise density* | kg/m ³ | 49-51 |

* FRD Can be adjusted according to customer's requirement

* RECOMMENDED PROCESS CONDITIONS

The chemicals should be adjusted to the correct temperature before use to ensure reactivity and viscosity are suitable for processing. If in doubt, please contact HUNTSMAN UAE FZE Technical Service Centre.

HUNTSMAN UAE FZE based in DUBAI, UAE is a fully owned subsidiary of Huntsman. Also, the data given in this sheet does not guarantee the character or a special utilization of the material.

HUNTSMAN UAE, FZE
P.O Box 16942 Jebel Ali Free Zone,
Dubai UAE