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**HIGH DENSITY POLYURETHANE FOAM (HDPF-10)™
PRODUCT DATA SHEET**

**HIGH DENSITY POLYURETHANE FOAM (HDPF-10)™
PIPELINE JOINT INFILL PRODUCT DATA SHEET**

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REVISION RECORD SHEET

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1.0 DESCRIPTION

1.1 HDPF-10™ joint fill material is a rigid cellular plastic polyurethane foam. The material system consists of two liquid components which when blended, reacts within seconds, rises as it changes state to a solid form and completely fills the joint annulus. The material is designed for injection into a formed annulus especially with expendable Sea Sleeve® outer protective cladding. HDPF-10 utilizes a water blowing agent rather than cholo-fluorocarbons, so that no hazard is introduced to the Earth's ozone layer.

2.0 COMPONENTS

- 2.1 "A": Polymeric Isocynate. An M.D.I., contains Diphenyl Methane-4, 4' Diisocynate.
- 2.2 "B": Polyol Blend. A Offshore Joint Services proprietary formulation of various polymers, catalysts and reactants.

3.0 SYSTEM SPECIFICATIONS

- 3.1 Mix Ratio: A 1:1 ratio by volume or by weight is acceptable.
- 3.2 Viscosity: "A" Component - 80-180 cps @ 70°F
"B" Component - 75-170 cps @ 70°F
- 3.3 Specific Gravity: "A" Component – 1.05 – 1.20 gm/cm
"B" Component – 0.97 – 1.12 gm/cm
- 3.4 Reactivity: (@ 75°F Hand Mix)
Cream Time – 10 to 18 seconds
Rise Time – 25 to 48 seconds



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4.0 PHYSICAL CHARACTERISTICS

- | | | | |
|-----|----------------------------------|--|------------------------------|
| 4.1 | Dry Density in place: | 10 | pcf nominal |
| 4.2 | Saturated Density Approximately: | 64 lbs. | PCF |
| 4.3 | Compressive Strength: | Exceeds | 400 psi @ 90 %
deflection |
| 4.4 | Percentage Open Cells: | Minimum | 80% |
| | Hazard: | All components are non-toxic and non-flammable. Resultant joint fill is inert. | |