TERVES
ENGINEERED RESPONSE

DATASHEET
Elementum™ DE70

PRODUCT DESCRIPTION:
ELEMENTUM DE70 LOW TEMP DEGRADABLE ELASTOMER

Elementum™ DE70 is a patent-pending a high performance degradable elastomer designed for downhole tool component applications. This low temperature (130°F - 150 °F) elastomeric product exhibits dramatic weight lose after exposure to brine solution. ElementUM DE70 can be molded and designed to any size requirements. The final part design will effect actual dissolution. It is available in two stock sizes: 4.7" OD x 2.1" ID x 4" long and 4.4" OD x 3.0" ID x 3" long.

Physical Properties: Elementum DE70 has a Shore A Durometer Hardness of 85 (ASTM D2240)

Mechanical Properties		
Tear Strength at 73°F	51 kN/mm	ASTM D624
Compression Set (73°F, 22 hr)	86%	ASTM D395B
Tensile Strength @ Break, 73°F	1071 psi	ASTM D412
Tensile Elongation@ Break, 73°F	178%	ASTM D412
Compression Set (150°F, 22 hr)	44%	ASTM D395B
Tensile Strength @Break, 150°F	308 psi	ASTM D412
Tensile Elongation @Break, 150°F	124%	ASTM D412

DE-70 Dissolution Data (After 72 hours)
Sample Size: 5/8" cubes from final product

Medium	Temp (°C)	% Weight Loss
Tap Water	65	37%
Tap Water	75	51%
1% KCl	65	44%
1% KCl	75	46%
3% KCl	65	35%
3% KCl	75	46%

Available in slugs and machined part to any dimension required

DISCLAIMER: The information provided in this document is intended to assist manufacturers and specifiers in the selection and use of Terves' products. All data noted should be understood to be average and expected performance, and is provided to serve as a general guideline only. This information **does not represent and is not to serve as minimum specification standards.** For further information contact Terves directly. All Terves commercially available products have patents or patents pending in the United States and in a variety of countries. For the latest patent information on this specific product contact Terves directly.

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