

Applications

Custom Tools Manufacturing
 High Pressure Applications
 High Temperature Applications
 Low Temperature Applications

Features

Maximum length - 3.281 ft
 Maximum weight - 44 lbs
 Wall thickness from 0.0394" - 2.00"
 Maximum O.D. (Tube) - None
 Maximum O.D. (Bar) - Limited*

*Contact your sales representative for details.

Benefits

High flexural strength.

Dissolves with exposure to Fresh, Salt or Produced H₂O at temperatures above 100° F.

Dissolve rates can be increased through the user's additive of choice.

Environmentally friendly and safe to handle.

WRAITH™

Raw Material

Phenom's patent pending Wraith Raw Material is a dissolvable aluminum based material currently available in five different formulations: **Compounds A, B, C, D, & E.**

Each compound addresses the differences operators face with required dissolve rates, temperature exposures and necessary material strengths.



Wraith Raw Material only requires exposure to **Fresh, Salt, or Produced** water and temperatures above 100° F to begin dissolving. Increased dissolve rates may be achieved for any of the Compounds through the addition of corrosive fluids and/or an elevation in temperature.

Wraith Raw Material's high flexural strength allows it to maintain integrity during high pressure applications and it dissolves at controllable and predictable rates.

Phenom's empirically proven equation accurately and reliably predicts the dissolve rate of the Wraith Raw Material in water based on its (compound and physical) properties and exposure to specific temperatures.

Primarily available in **Tube Form**, the Wraith Raw Material provides end users the flexibility to design and build custom tools for a variety of High Pressure, High Temperature, Low Temperature and Extended Range applications.

Material Specifications					
Compound	Dissolve Rate (in/hr)	@ Temperature (°F)	Compressive Strength (psi)	Flexural Strength (psi)	Yield Strength (psi)
A	0.0272	120	69,372	45,629	17,100
B	0.0122	160	70,764	60,945	18,202
C	0.0406	200	61,235	75,869	14,562
D	0.0346	230	>72,461	73,288	16,302
E	0.0961	300	>72,461	63,353	16,694

Additional material specifications available upon request.

Need a custom formulation?
 Contact us to discuss your requirements.

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