Cabot Oil & Gas

As the challenges facing oil and gas operators developing fields in frontier regions such as deepwater/deepwater, oil sands, and Arctic environments continue to increase, so does the importance of selecting the best solutions to meet these challenges, especially insulation. Changes in the environmental landscape and regulation have also increased focus and demand on insulated systems in the industrial world.

The fabrication, construction, and operation of pipelines and other systems requires a removable insulation material that delivers the best possible thermal performance. Cabot Corporation, a global leader in performance materials, has developed a series of world-class products which exploit the many benefits of its aerogel insulation to meet the ever-increasing demands of the oil and gas industry.

Cabot aerogel products are available in a range of forms to best meet the varied needs of the oil and gas and industrial marketplace. Each can be quickly and easily installed resulting in cost savings for fabrication and installers while delivering operators the many benefits of exceptional thermal performance to meet the increasing demands of the oil and gas industry.

Cabot aerogel delivers a rare combination of properties:
- Ultra-low conductivity, even under compression
- High performance: degradation over time
- Superior thermal performance: Performance from cryogenic to high temperature
- Excellent hydrophobicity
- Mechanical resilience and integrity under load

Resulting in improved project economics:
- Longer subsea tiebacks
- Smaller jacket pipes and extensions
- Reduced cladding and pipelines
- Longer subsea tiebacks
- Smaller jacket pipes and extensions
- Reduced cladding and pipelines
- Reduced risk

Cabot aerogel technologies not only provide the highest thermal performance, but also bring benefits with regards to corrosion under insulation, hydrophobicity, and mechanical strength. Cabot’s particulate aerogel can also be used as an additive to enhance traditional technologies and increase thermal performance to previously unattainable levels.

As part of Cabot’s ongoing commitment to innovation, Cabot aerogel delivers an extensive line of products and forms to economically and efficiently address the most difficult thermal design issues.

Cabot has developed a series of aerogel products and forms to economically and efficiently address the most difficult thermal design issues.
Cabot Oil & Gas has developed a series of aerogel products and forms to economically and efficiently address the most difficult thermal design issues.

Cabot aerogel delivers a raw combination of properties:

- Ultra-low conductivity, even under compression
- No performance degradation over time
- Superior mechanical performance
- Performance from cryogenic to high temperature
- Extreme hydrophobicity
- Mechanical resilience and integrity under load

Results in improved project economics:

- Longer life-cycle and pipeline life
- Improved lifetime economics

As the challenges facing oil and gas operators developing fields in frontier regions such as deepwater/deepwater, ultra-deepwater, and arctic environments continue to increase, so does the importance of choosing the best solutions to meet these challenges, especially insulation. Changes in the environmental landscape and regulation have increased focus and demands on insulated systems in the industrial world. The fabrication, construction, and operation of pipelines and other systems requires a versatile insulation material that delivers the best possible thermal performance. Cabot Corporation, a global leader in performance materials, has developed a series of world-class products which exploit the many benefits of its aerogel insulation to meet the ever-increasing demands of the oil and gas industry.

Cabot aerogel products are available in a range of forms to best meet the varying needs of the oil and gas and industrial marketplace. Each can be quickly and easily installed resulting in cost savings for fabricators and installers while delivering operators the many benefits of exceptional thermal performance such as longer cool down times, lower operating temperature, reduced cladding and reduced risk. Cabot’s aerogel technologies not only provide the highest thermal performance, but also bring benefits with regards to corrosion under insulation (CUI) performance such as longer subsea tiebacks, no performance degradation over time, and reduced risk. Cabot’s aerogel provides the best solution to CUI performance, as performance varies based on material grade and specific application.

APPLICATIONS

- Thermal insulation
- Energy efficiency
- Pressure protection
- Condensation control
- Process control

The fabrication, construction, and operation of pipelines and other systems require a versatile insulation material that delivers the best possible thermal performance. Cabot Corporation, a global leader in performance materials, has developed a series of aerogel products and forms to economically and efficiently address the most difficult thermal design issues.

Cabot aerogel delivers a raw combination of properties:

- Ultra-low conductivity, even under compression
- No performance degradation over time
- Superior mechanical performance
- Performance from cryogenic to high temperature
- Extreme hydrophobicity
- Mechanical resilience and integrity under load

Results in improved project economics:

- Longer life-cycle and pipeline life
- Improved lifetime economics

As the challenges facing oil and gas operators developing fields in frontier regions such as deepwater/deepwater, ultra-deepwater, and arctic environments continue to increase, so does the importance of choosing the best solutions to meet these challenges, especially insulation. Changes in the environmental landscape and regulation have increased focus and demands on insulated systems in the industrial world. The fabrication, construction, and operation of pipelines and other systems requires a versatile insulation material that delivers the best possible thermal performance. Cabot Corporation, a global leader in performance materials, has developed a series of world-class products which exploit the many benefits of its aerogel insulation to meet the ever-increasing demands of the oil and gas industry.

Cabot aerogel products are available in a range of forms to best meet the varying needs of the oil and gas and industrial marketplace. Each can be quickly and easily installed resulting in cost savings for fabricators and installers while delivering operators the many benefits of exceptional thermal performance such as longer cool down times, lower operating temperature, reduced cladding and reduced risk. Cabot’s aerogel technologies not only provide the highest thermal performance, but also bring benefits with regards to corrosion under insulation (CUI) performance such as longer subsea tiebacks, no performance degradation over time, and reduced risk. Cabot’s aerogel provides the best solution to CUI performance, as performance varies based on material grade and specific application.

APPLICATIONS

- Thermal insulation
- Energy efficiency
- Pressure protection
- Condensation control
- Process control

The fabrication, construction, and operation of pipelines and other systems require a versatile insulation material that delivers the best possible thermal performance. Cabot Corporation, a global leader in performance materials, has developed a series of aerogel products and forms to economically and efficiently address the most difficult thermal design issues.

As the challenges facing oil and gas operators developing fields in frontier regions such as deepwater/deepwater, ultra-deepwater, and arctic environments continue to increase, so does the importance of choosing the best solutions to meet these challenges, especially insulation. Changes in the environmental landscape and regulation have increased focus and demands on insulated systems in the industrial world. The fabrication, construction, and operation of pipelines and other systems requires a versatile insulation material that delivers the best possible thermal performance. Cabot Corporation, a global leader in performance materials, has developed a series of world-class products which exploit the many benefits of its aerogel insulation to meet the ever-increasing demands of the oil and gas industry.

Cabot aerogel products are available in a range of forms to best meet the varying needs of the oil and gas and industrial marketplace. Each can be quickly and easily installed resulting in cost savings for fabricators and installers while delivering operators the many benefits of exceptional thermal performance such as longer cool down times, lower operating temperature, reduced cladding and reduced risk. Cabot’s aerogel technologies not only provide the highest thermal performance, but also bring benefits with regards to corrosion under insulation (CUI) performance such as longer subsea tiebacks, no performance degradation over time, and reduced risk. Cabot’s aerogel provides the best solution to CUI performance, as performance varies based on material grade and specific application.
As the challenges facing oil and gas operators developing fields in frontier regions such as deep/ultra-deep waters, oil sands, and arctic environments continue to increase, so does the importance of choosing the best solutions to meet these challenges, especially insulation. Changes in the environmental landscape and regulation have also increased focus and demands on insulated systems in the industrial world. The fabrication, construction, and operation of pipelines and other systems requires a variety of insulation materials that deliver the best possible thermal performance. Cabot Corporation, a global leader in performance materials, has developed a range of world-class products which exploit the many benefits of aerogel insulation to meet the ever-increasing demands of the oil and gas industry.

Cabot aerogel products are available in a range of forms to best meet the varying needs of the oil and gas and industrial marketplace. Each can be quickly and easily installed resulting in cost savings for fabrication and installers while delivering operators the many benefits of exceptional thermal performance. Cabot aerogel delivers a rare combination of properties:

- Ultra-low conductivity, even under compression
- No performance degradation over time
- Superior fire performance
- Performance from cryogenic to high temperature
- Extreme hydrophobicity
- Mechanical resilience and integrity under load

As Cabot aerogel is made from皇后® and carbon aerogel particles, it is the lightest and best insulation material in the world to create high performance, adaptable, eco-friendly, and energy-efficient insulation solutions that deliver high thermal performance, particularly when compared to many traditional insulation materials. Cabot aerogel provides extremely high thermal performance for ambient to cryogenic applications.

The unique nanoporous microstructure of the aerogel particles results in minimal thermal conductivity of only (air filled in), less than that of air, which will not degrade with time or temperature. Cabot's aerogel particles have also been approved for cryogenic applications.

Cabot has developed a series of aerogel products and forms to economically and efficiently address the most difficult thermal design issues.

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>Thermal Conductivity (mW/(m·K))</th>
</tr>
</thead>
<tbody>
<tr>
<td>-200°C to 200°C</td>
<td>0.005</td>
</tr>
<tr>
<td>-328°F to 392°F</td>
<td>0.010</td>
</tr>
</tbody>
</table>

For more information, please visit Cabot's website or contact Cabot directly for more information, as performance varies based on material grade and specific application.