



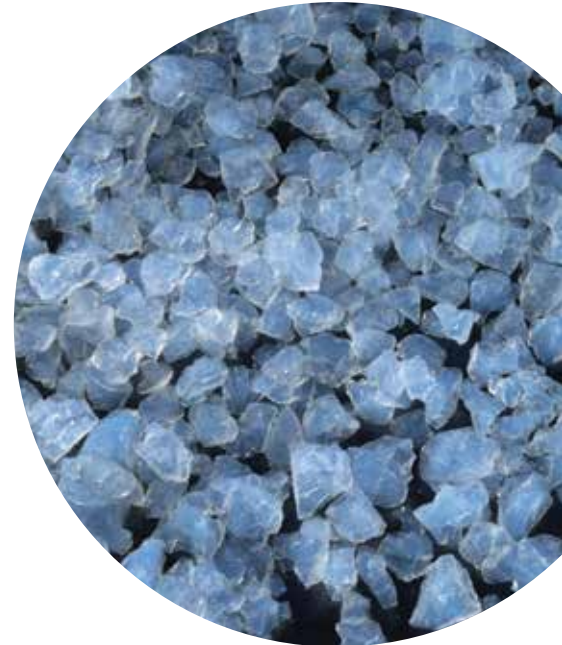
# AEROLON<sup>®</sup>

## THERMAL INSULATING COATING

### FEATURING AEROGEL

Tnemec has combined its leading, high-performance coatings technology with the world's best insulating solid (aerogel) to produce Aerolon. This fluid-applied, thermal insulating coating offers protective characteristics that address the deficiencies found with conventional insulation, such as polyurethane foam and mineral wool.

Aerolon is the only fluid-applied coating that rises to the highest level of performance while delivering multiple benefits. It is part of a complete coatings system that also includes specialty primers and topcoats as specific needs and conditions may dictate. In addition, Aerolon's water-based formulation with very low volatile organic compounds (VOCs), makes it an ideal choice for environmental reasons.



## UNEQUALED BENEFITS OF INNOVATIVE AEROLON THERMAL COATING



### Ultra-Low Heat Transfer

The coating's excellent thermal characteristics improve efficiency and reduce energy costs. Series 971 Aerolon Acrylic features a thermal conductivity of 35 mW/mK and an R-value of 4.1 per inch, which is twice as efficient as other thermal coatings and comparable to most other forms of insulation.



### Resists Corrosion Under Insulation (CUI)

Most conventional forms of insulation are not bonded directly to the substrate, thus creating air gaps where moisture can collect to initiate CUI. Aerolon bonds with high-performance primers for a durable barrier that resists corrosion.



### Worksite Safety & Protection

The ability to minimize thermal conductivity or heat transfer from one side of a material to the other is a major factor in preventing work-related accidents. Aerolon creates a 5-second "safe touch" burn protection factor on coated surfaces as a safeguard for personnel.\*



### Condensation Control

Aerolon provides exceptional insulation qualities that reduce the formation of condensation by insulating cool metal substrates from warm, moist air. Ideal for areas such as processing equipment, pipe galleries, and pedestal tank interiors (dry) where frequent condensation is a safety or corrosion concern.



### Higher Build & Faster Application

Aerolon can be applied in a high-build coat compared to other fluid-applied coatings. Additionally, due to the coating's low thermal conductivity, a much lower overall thickness is usually necessary. This makes application times faster, resulting in quicker return to service, plus much lower labor costs and overall savings.\*

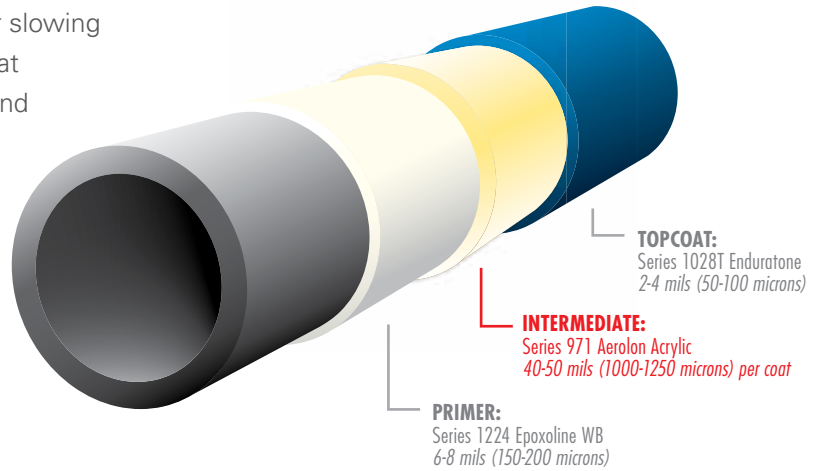
Aerolon is the only coating of its kind to effectively utilize a key ingredient, aerogel – the world's best insulating solid.

\*Contact your Tnemec representative for recommended film thickness and maximum application and operating temperatures.

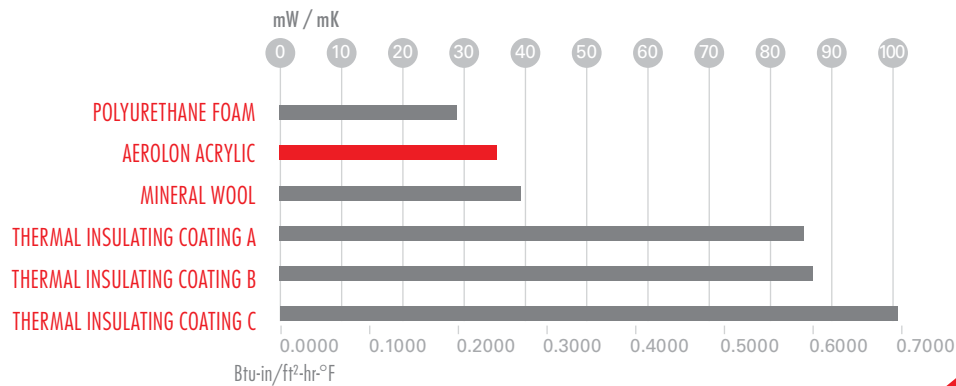
## KEY CHARACTERISTICS ENSURE EFFECTIVENESS

Aerolon's physical characteristics, such as high-film build, excellent bonding, and tailored aerogel particle size, create an ideal combination of thermal-efficient attributes. Whether slowing heat loss to improve efficiency or reducing the rate of heat transfer to protect personnel from burns, Aerolon is second to none.

## STRATIFIED, BONDED LAYERS OF PROTECTION



## K-VALUE THERMAL EFFICIENCY COMPARISON (AEROLON VS. OTHER INSULATION OPTIONS)



The lower the K-value, the better the insulating properties. This shows how Aerolon compares with conventional insulation and other thermal insulating coatings.

Aerolon is part of a complete coatings system that includes specialty primers and topcoats. Contact your Tnemec coatings consultant for specific system recommendations.

## PERFORMANCE PROVEN BY COMPARISON

In side-by-side comparisons, Aerolon's beneficial combination of insulating and protective properties represent a more effective solution than virtually all other available options.

When applied to piping, tanks or steel in industrial facilities, refineries, manufacturing plants or water treatment plants...

### AEROLON PROVIDES:

- Increased thermal efficiency and energy savings
- Personnel safety/protection from hot surfaces
- Exceptional Corrosion Under Insulation (CUI) resistance
- Excellent substrate bonding and durability
- Superior condensation control characteristics
- Greater ease of application (including trouble-free, labor-saving touchup/repair)



INNOVATION IN EVERY COAT™

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