



# JMS SUPER SULFUR THERMOCOUPLE METAL CERAMIC COMPOSITE PROTECTION TUBE

designed for high temperature corrosive applications

## JMS Southeast, Inc. Temperature Measurement

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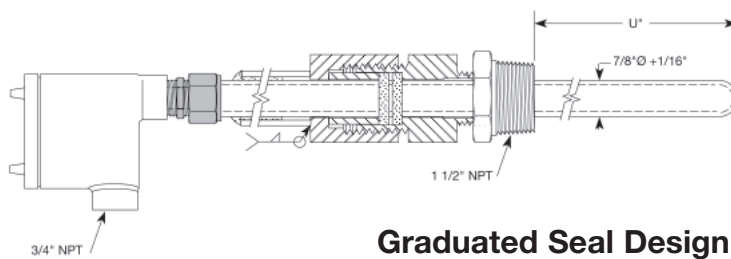
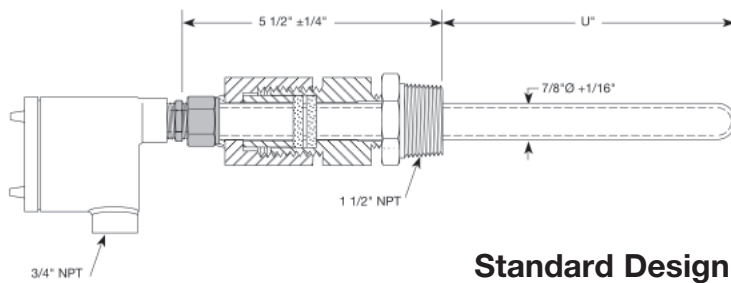
[www.jms-se.com](http://www.jms-se.com)



# MS Super Sulfur Thermocouple Me

*Designed for high temperature corrosive applications*

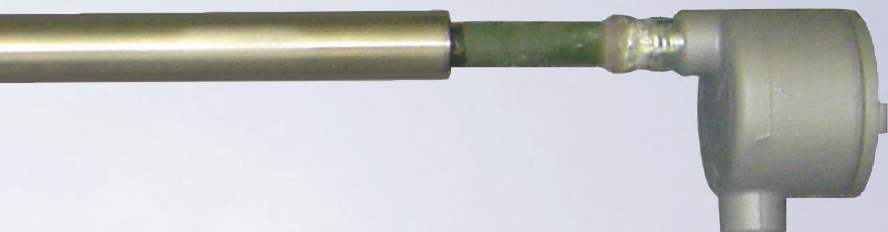
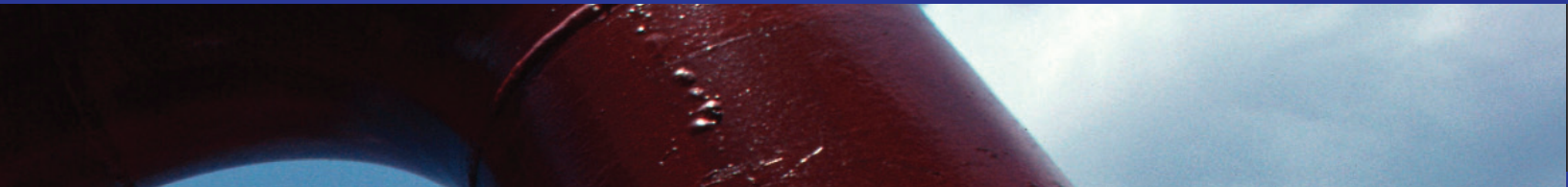
## DESIGN ASPECTS



- ❖ Excellent corrosion resistance capable of resisting even the punishing temperatures and corrosion of a sulfur burner.
- ❖ Graduated seals in fitting designed to provide consistent monitoring and to prevent leakage of sulfur burner contents.
- ❖ Maximize lifespan of wells and sensors.

- ❖ Tightly bonded layer of chromium oxide which, together with the naturally inert nature of alumina, provides protection tubing with a remarkable resistance to oxidizing atmospheres over 2200°F and corrosion
- ❖ High thermal conductivity and sensitivity to temperature changes makes it an excellent choice for thermocouples used to monitor or control in high temperature environments.
- ❖ Great strength at temperatures where many high temperature metals melt. Above 2800°F it begins to soften and becomes plastic.
- ❖ Less porous than most compacts. No significant passage of gas through the body at high temperatures, except under high vacuum. Sufficiently impermeable for most industrial applications.
- ❖ Superior to “straight” ceramics in resisting thermal shock, mechanical shock and impact.
- ❖ Sturdy UL, FM and CSA approved explosion proof head.
- ❖ Not recommended in boiling sulfuric acid - 10%. For more information regarding its suitability to your application, **Call JMS Today!!!**

# Metal Ceramic Composite Protection Tube



## PROCESS BENEFITS

- ❖ JMS provides experienced engineering capable of designing to suit your specification needs.
- ❖ Increased life span of JMS Super Sulfur Tube increases the lifespan of your sensors
- ❖ Increases reliable temperature measurement in sulfur burners on an ongoing basis.
- ❖ Reduces risk of sulfuric acid leaking into uncontained areas.
- ❖ Reduces shut downs due to sensor replacement.
- ❖ Avoids the high cost of repetitive replacements.



Sulfuric Acid  
Plants

Corrosive SO<sub>2</sub>  
and SO<sub>3</sub> gas  
to  
2500° F  
at tip

Corrosive SO<sub>3</sub>  
and HF gas  
to 2000° F

Boiling  
sulfuric acid  
– 97%

Many  
additional  
applications.

*Call JMS today  
for prompt  
and friendly  
assistance  
with your  
specification  
needs.*

A P P L I C A T I O N S



**Represented by:**

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Temperature Measurement**

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**\$0.50**