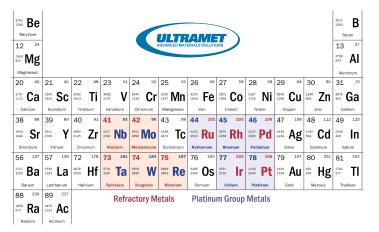
# ULTRAMET.COM



# **CORE COMPETENCY**

Chemical vapor deposition of refractory and platinum group metals and ceramics for use in extreme thermal, chemical, and mechanical environments



# **KEY POINTS OF CONTACT**

Jesse Quemada Customer Service / Sales Associate Jesse.Quemada@ultramet.com 818-899-0236



#### **ULTRAMET**

12173 Montague Street Pacoima CA 91331

T: 818-899-0236 F: 818-890-1946

mail@ultramet.com

# **KEY PROJECTS OR PRODUCTS**

Freestanding refractory metal components

Open-cell refractory metal and ceramic foams

Ceramic and metal matrix composites

**Protective coatings** 

Hypersonic materials

### Key markets

Aerospace | Defense | Orthopedic implants | Energy

# **Applications**

**Propulsion** 

Thermal management at ultrahigh temperatures

Structural thermal protection systems

Heat sinks

**Ablators** 

**Insulators** 

Cryogenic insulation and heat exchangers

# **ULTRAMET**

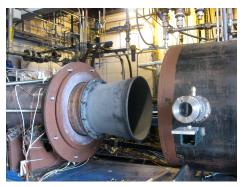
### **ULTRAMET.COM**



Ultramet carbon foam forms the core of the heat shield on the Parker Solar Probe.

"... the heat shield works so well that we had to put some of the heaters on for the instruments, even at closest approach."

 NASA spokesperson briefing on performance of Parker Solar Probe in its first fly-by of the Sun, Nov 2018.



Hot-fire test of CMC-lined C/C nozzle extension at ATK; maximum ID 11.36"



Iridium-lined rhenium combustion chambers for high-performance liquid rocket engines