

### **General Description:**

This is a nickel based metallurgically bonded coating suitable for extremely high temperature service and extremely high thermal shock applications. This coating has displayed maximum abrasion resistance and corrosion resistance in elevated temperature cyclic services.

The hardness of this coating is derived from hard phases comprised of Chromium, Tungsten, Boron and Carbon, which allows for toughness, abrasion and erosion resistant properties to remain uniform throughout the coating.

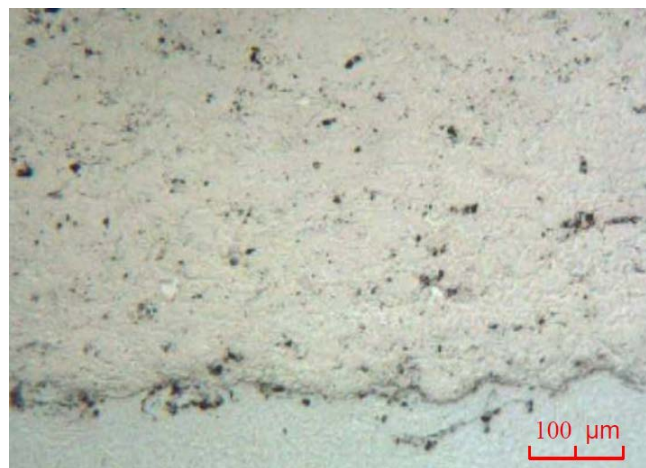
The coefficient of thermal expansion of this coating has a close match to those of high nickel content alloys, including Inconel 718. When metallurgically bonded to Inconel 718, this coating has performed extremely well in power and steam service for 2500 class and higher valves at temperatures to 1300°F (704°C).

### **Application Method:**

Spray and Fuse

### **Typical Chemistry:**

Boron	3%
Carbon	1%
Chromium	15%
Nickel	Balance
Silicon	4%
Tungsten	17%



### **Typical Mechanical Properties:**

Hardness	> 59 HRC minimum
Finished Thickness	0.009" to 0.023"
Porosity	2% maximum
Useful Temperature	up to 1300°F (704°C)
Bond Strength	> 40,000 psi

### **Confidentiality Note:**

This document contains information that is confidential and proprietary to MOGAS Industries and is not to be reproduced, copied to another document, transferred or used in any way other than that which is included in expressed, written consent from MOGAS Industries