



## **Workmanship Specifications: WSO33**

**Date: January 2019**

Manufacturing Precision Feed-through (MPF) Products, Inc. produces ceramic-to-metal Viewports, Feedthroughs, Connectors and Isolators to the highest UHV standards. All of our components are used in harsh environments to transfer Heat, Light, Power, Gas Liquids and RF Energy from air to sealed-vacuum enclosures.

Anything manufactured by MPF Products, Inc. uses a minimum 90% ceramic.

All of our Alumina ceramics are non-porous and UHV compatible.

All of ceramic-to-metal designs utilizing Alumina ceramics are bake-able to 450°C unless otherwise stated.

All of our designs are 100% Leak Tested to  $1 \times 10^{-9}$  cc/sec He.

A Certificate of Compliance is included in each shipment.

All of our metal components are 100% degreased with ultra-sonic cleaning practices and ready for Ultra High Vacuum use.

All of our final goods have been assembled and manufactured using brazing temperatures between 500-1200° C

All of our designs have the ability to be Non-Magnetic upon request  
Please call the factory.

MPF Products, Inc. utilizes (4) different sealing technologies in order to satisfy our customers requirements. We employ Active Metal Sealing, Thick/Thin Metal-ization, Glass Ceramics and Spring Energized Sealing Techniques.

MPF Products, Inc. preforms a 100% test on each final good(s) before shipment for electrical continuity and electrical grounding (pin-to-pin & pin-to-ground) using an industry standard multimeter.

**MPF Products, Inc.**

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