

## Thermally Stable Porous Bodies made from 400 series Stainless Steel

### **Disclosure Number**

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### **Technology Summary**

The melting range of 400 series stainless steel varies from as low as 1370C to as high as 1530C depending on the composition. However, because of the high surface area of porous stainless steel bodies these materials become non-porous at temperatures usually 200-300 C below the melting point. This means that these materials can not operate or go through subsequent processing steps above approximately 1200C without loss of open porosity. We describe a method to make 400 series stainless steel structures that are stable even at 1300-1400C.

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