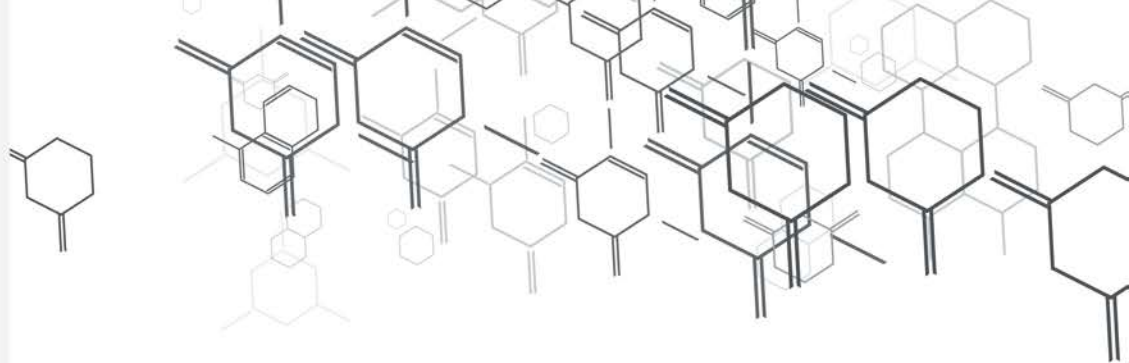


Solution for Laser and Mechanical Gyroscopes



Gas purity is of primary importance in the He-Ne lasers tubes adopted in ring laser gyros: gaseous impurities would alter the original discharge properties of the lasing gas, thus leading to an improper functioning of the device.

Non-evaporable getters are by far preferable to the evaporable ones in ring laser gyros and the sintered porous non-type is no doubt the most appropriate getter solution for these devices. In fact a getter in RLGs cannot particulate and cannot release any contaminant that otherwise would irreversibly damage the mirrors, the most delicate and expensive component, thus making the RLG totally useless: both these requirements are fully satisfied by St175, SAES' titanium-based getter. SAES' sintered porous getters are the best available product from a mechanical standpoint; besides, requiring an activation at 500° C and being sintered at high temperature, they cannot release any impurity during the activation process.

St175 getters, supplied in ring shaped containers made of nichrome, are the most successfully used getters in RLGs; this configuration allows safe and suitable mounting in the cathode area and an easy heating at the activation temperature by RF before the He-Ne backfilling.



Boost your product performance with SAES Getters solutions:

St172 Sintered Porous Getters

St175 Sintered Porous Getters

making innovation happen, together

saes
group

page@saes-group.com
www.saesgetters.com

*This paper contains no confidential information
© 2012 SAES Getters. All rights reserved.*