

# Flexitallic becomes the first manufacturer in the Middle East and Africa to install an ISO Class-7 validated Clean Room for Oxygen service gaskets, located in Ras Al Khaimah, United Arab Emirates



Flexitallic has invested in its Ras Al Khaimah, UAE manufacturing facility to support Middle East and Africa customers by installing a **ISO Class-7 validated clean room** to supply **Oxygen Cleaned Gaskets** in line with the **CGA G-4.1 procedure**.

An ISO Class 7 clean room creates a controlled environment that adheres to specific cleanliness standards established by the International Organization for Standardization. An ISO validated clean room is an essential and additional guaranteed step to maintain the extreme cleanliness of products used in Oxygen service, ensuring the safety, reliability and quality of the product.

#### FLEXITALLIC LLC

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#### FLEXITALLIC GASKET COMPANY LLC

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Gaskets for Oxygen service must be cleaned, packed, and labelled as per Flexitallic Standard Operating Procedure inside the ISO Class-7 clean room by trained professionals.

The ISO classification system defines the clean rooms based on the maximum number of airborne particles allowed per cubic meter of air. **The standard permits no more than 352,000 particles that are 0.5 micrometers or larger in size.**

To meet the clean room standard several measures are employed. To follow CGA G-4.1 procedure, specialized ventilation systems, high-efficiency particulate air to remove particles from the air, controlled airflow patterns, strict protocols for personnel entering and working within the clean room. These measures help to minimize the particles and other contaminants, ensuring a controlled and clean environment for sensitive processes.

Non-metallic gasket material used for Oxygen service are 'BAM' tested, inspected and packed in the clean room.

- **FLEXITALLIC SIGMA®**  
(Biaxially orientated PTFE) is BAM certified, packed within the ISO Class 7 validated clean room and safe for Medical Oxygen service
- **NOVUS 34/SF4300 (CNAF GASKETS)**  
Is BAM certified and packed within the ISO Class 7 clean room



Oxygen cleaning can be offered (on request) on our range of sealing materials including:

- **THERMICULITE®**  
High temperature gasket material for temperatures up to 1000°C
- **CORRICULITE™**  
Superior sealing material for proactive corrosion prevention
- **CHANGE™**  
For thermal cycling conditions heat exchangers
- **FLANGE RESCUE GASKETS**  
Solution for Flange Face Corrosion
- **ISOFLEX-FS**  
Flange Isolation Gaskets - **Fire Safe** as per **API 6FB** and exceed **MESC SPE 85/300-2017 fugitive emission Class A** requirements and **NACE compliance**.



Other products such as **Spiral Wound Gaskets, RTJ Gaskets, Flexpro® / Kammprofile Gaskets** can also be cleaned for Oxygen and corrosive applications.

In addition, Flexitallic LLC is accredited to ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018.

**To find out more about our clean room operations and how we can support you with the highest levels of service and expertise, please send enquiries to [Sales@flexitallic.ae](mailto:Sales@flexitallic.ae).**

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