

Materials Certificate of Compliance

General

Non-metal products that are intended to be in contact with food are considered those containing plastic, rubber, rubber-like, adhesive, bonding agents, carbon and ceramic materials.

Due to the requirements of the food and beverage industries, Flowtrend, Inc. has standardized and approved several elastomeric compounds and plastics that are allowed by a regulation listed in [Title 21 Code of Federal Regulations, Part 177](#). These FDA regulations also authorize some non-metal products to be in contact with food because they are generally recognized, by qualified experts, to be safe under the intended conditions of use; these are known as [Generally Recognized As Safe \(GRAS\) substances](#).

Silicon Carbide, Tungsten Carbide, and Carbon Seals are sintered and comply with the GRAS regulations or are approved under FDA 21 CFR 177.2410.

Flowtrend further certifies that all polymers used in any of our food contact products are phthalate-free.

These non-metal products also meet the requirements of the following European Union Regulations

1. *EU 1935/2004* - Materials and articles intended to come into contact with food.
2. *EU 2023/2006* - Good manufacturing practice for materials and articles intended to come into food contact
3. *EU 1907/2006* - Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

[ANSI/3-A 00-00 \(3-A Sanitary Standards for General Requirements\)](#), paragraph D1.2.4, states that non-metal products are permitted to be in contact with food if they are allowed by a regulation listed in Title 21 Code of Federal Regulations, Parts 177-199.

Elastomers

While we maintain certificates of compliance for our elastomers, we currently do not specify specific compound fillers, curing agents, trademarked base elastomers, or other compound ingredients, nor do we require our suppliers to divulge these, as they are considered proprietary.

Flowtrend only specifies durometer, generic base elastomer (EPDM, FKM, NBR, HNBR, VMQ) and requires compliance to the regulations stated above. For some specialized applications, we define the compounds in addition to the regulations stated above.

EPDM is also certified to be free from animal components.

Plastics

Flowtrend, Inc. certifies that plastics such as PTFE, LDPE, TFM, PEEK, and Nylon meet the requirements of the Federal Regulations Title 21, Part 177 or are authorized under the GRAS regulations.

Metals

Flowtrend, Inc. certifies that our metal parts that are in contact with food are made from materials that are allowed by ANSI/3-A 00-00.

Sunil Samuel

Sunil Samuel, Production Manager