

Declaration of Compliance for Stainless Steel Suitable for Food Contact

Tcomp – Tjæreborg Kompensatorfabrik A/S hereby declare that the stainless steel products we supply fulfil with applicable legislation for materials and articles intended for contact with food.

The legislation includes:

- EC directive No. 1935/2004
- EC directive No. 2023/2006
- The Danish Executive Order No. 1248 of 30/10/2018

A general requirement is that materials and objects, including active and intelligent materials and objects, are manufactured in accordance with good manufacturing practice so that they, during normal or predictable conditions, do not leak substances into the food products in amounts which may:

- Imply a hazard to human health.
- Imply unacceptable changes in the composition of the food products.
- Imply a degradation of the organoleptical properties of the food product.

Stainless steel grades included:

This declaration includes all stainless steel grades regarded as being suitable for food contact.

Tcomp – Tjæreborg Kompensatorfabrik A/S recommends using as a minimum austenitic, ferritic or duplex grades (EN 10088-1), with a "Pitting Resistance Equivalent" (PREN) of at least 17.5. For corrosive media and/or higher temperature, stainless steel with a PREN above 23 is recommended. For less corrosion resistant alloys (i.e., martensitic knife alloys), caution is recommended. In any case, only stainless steel with sufficient corrosion resistance to withstand the environment in which it's going to be used should be applied.

$$\text{PREN} = \%Cr + 3,3 \times \%Mo + 16 \times \%N$$

A vital condition for the steel to maintain its corrosion resistance is that it is handled and treated correctly. If not, corrosion may occur and penetration and/or metal leaking into the food products may take place.

Certificates:

All stainless steel materials supplied by Tcomp – Tjæreborg Kompensatorfabrik A/S are certified according to EN 10204 – 3.1. Tcomp – Tjæreborg Kompensatorfabrik A/S recommends that all stainless steel meant for food product contact is ordered along with a certificate. Material certificate should be ordered at first to meet requirements in EC 1935/2004 Article 17 about traceability, and secondly, it's a vital control of the alloying elements.

Best regards



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