

QUALITY REQUIREMENTS FOR COMPONENT SUPPLIERS

The rules stated below are binding for all suppliers in the automotive industry.

1. Decision-making rules and objectives for Quality/Logistics

Quality criteria :

- no incidents within the reception area or on the production line
- 25 ppm – all key characteristics and functional dimensioning of products
- as for the other criteria : 50 ppm – all criteria treated jointly

Failure to comply with the above purchase conditions will result in a complaint being made at all times. The complaint will then be examined under 8D analysis within the period no longer than : 24 hours (D3), 10 days (D6), 60 days (D8). In case the terms are not met, the escalation procedure shall be started.

All and any costs incurred in relation to the complaint made (sorting, express delivery, stopping the production) shall be borne by the supplier against whom the procedure should be initiated.

2. Validation documentation

Pre-series phase

Before the initial samples of goods are accepted, you should ensure that each delivery contains as follows :

- ✓ metrology report on 5 representative pieces for series production
- ✓ Certificate of Material Conformity.

Demonstration of the initial samples of products

The documentation on the demonstration of the initial samples of products consists of the following elements :

- ✓ five representative pieces for series production
- ✓ material certificate
- ✓ metrology test report on functional dimensioning of products for five representative pieces for series production, including the following elements:
 - references of individual pieces and their marking
 - production date
 - batch of raw material
- ✓ strength analyses for key characteristics of product or characteristics specified by the project manager at the product development phase
- ✓ 2D design of product
- ✓ FMEA analysis
- ✓ supervision plan
- ✓ control measures R&R analysis
- ✓ packaging card

The above mentioned elements should be provided in accordance with the project implementation plan.

Series phase

Each delivery should be accompanied by a conformity certificate containing details on the quantity of products and batch number.

Any changes to products, procedures, appliances, materials or suppliers shall be reported to KNAUF Industries. All such changes must be validated.

QUALITY REQUIREMENTS FOR MATERIAL SUPPLIERS

1. Decision-making rules and objectives for Quality/Logistics

Quality criteria :

- no incidents in the reception area
- no incidents on the production line
- no incidents related to documentation

Failure to comply with the above Conditions shall result in a complaint being made, which – if applies to the materials used in the automotive industry – shall be settled under the 8D analysis within the period no longer than : 24 hours (D3), 10 days (D6), 60 days (D8). In case the terms are not met, the escalation procedure shall be started.

All and any costs related to the complaint made (sorting, express delivery, stopping the production...) shall be incurred by the supplier against whom the relevant procedure should be initiated.

2. Validation documentation

Required documentation

ISO 9001 V2015 Certificate (*)

- ⇒ Product Data Sheet,
- ⇒ Material Safety Data Sheet,
- ⇒ REACH Certificate,
- ⇒ RoHS Certificate,
- ⇒ BPA-free Certificate,
- ⇒ Phthalate-free Certificate,
- ⇒ Nanoparticles-free Certificate,
- ⇒ Conflict Minerals Compliance Certificate,
- ⇒ Certificate of Heavy Metal Content,
- ⇒ Food Contact Material Certificate (applies to materials intended for contact with food),
- ⇒ Certificate of Fire Resistance (applies to fireproof materials).

** with ultimate objective of becoming certified IATF 16949 (for automotive sector)*

Demonstration of the initial product samples :

Marking of materials in accordance with the requirements specified in the regulations (R symbol, if material is subject to the said requirements) or appropriate information within the delivery documents.

Documentation on demonstration of the initial product samples :

- ✓ three standard batches representative for series production
- ✓ Certificate of Material Conformity
- ✓ pentane content report, on three batches of material, including the following elements:
 - octabin/big bag reference
 - date of production
 - trial batch

Series phase

Each delivery should contain a certificate of conformity including information about the quantity of products and a batch number + marking of materials should be carried out in accordance with the requirements set forth in relevant regulations (R symbol if materials are subject to the said requirements) or appropriate information within the delivery documents.

Any possible changes to products, procedures, materials or suppliers shall be reported to KNAUF Industries. All such changes must be validated.