



vdi appendix f product grouping examples (2019-06).doc

Appendix F, Product Grouping Examples

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1 Introduction

The definition of Products and Product families is introduced in chapter 6 of the scheme rules. According to these definitions following procedure is possible:

- Product Certification (Products and Product families)

The main reason for grouping more than one product in a Product family can be to obtain more statistical data for products which are identical. The reasons can be also marketing reasons for different names for different applications or markets or to reduce testing costs.

In any case the product grouping is a task of the manufacturer but has to be agreed and accepted by the certification body.

The Reaction to Fire characteristic can be grouped Property by Property.

2 Product Certification (Products and Product families)

For producers who want to certify a small number of products in one production plant. The premise is that each single product can be characterised and differentiated. Every product (brand name) / product family can be then certified individually with a KEYMARK Product Certificate.

Product Certification is used for thermal insulation products for building equipment and industrial installations.

A product family can be e. g. **Mineral Wool pipe sections** acc. EN 14303 with different facings and/or names or **Flexible Elastomeric Foam (FEF) tubes** or **sheet products** acc. EN 14304 with different colours and/or names for different applications. In both cases the products have the identical declared values for example Thermal Conductivity, Maximum Service Temperature and Chloride Content but not for Reaction to Fire

The example in table 1 shows a producer of thermal insulation products for technical applications with 5 different products and 1 product family. 6 VDI Product Certificates can be issued if all declared properties are tested positive (only the Reaction to Fire can be grouped by property). For the product family (B) it is enough that one representative (e.g. unfaced or faced with Alu or faced with Tissue) will be sampled and tested.



Table 1: Product Certification and number of annual audit tests

Grouping by Product or Product family	Brand names	Declared Properties			
		Reaction to Fire	Maximum Service Temperature	$\lambda(\vartheta)$	Chloride
→ A	Product A	A1	600	$\lambda_1(\vartheta)$	CL10
→ B (Product family)	Product B		A2	450	$\lambda_2(\vartheta)$
	Product B Alu				
	Product B Tissue				
→ C	Product C	B	250	$\lambda_3(\vartheta)$	CL10
→ D	Product D		500	$\lambda_4(\vartheta)$	CL10
→ E	Product E		650	$\lambda_5(\vartheta)$	CL10
→ F	Product F	C	680	$\lambda_6(\vartheta)$	CL10
6 products/families	Number of audit tests	4/(2 years)*)	6/year	6/year	6/year
-> 6 VDI Product Certificates (5 products, 1 product family)					

*)The Reaction to Fire characteristic can be grouped Property by Property