

Nonallergic declaration of dormakaba Serie7® and Serie8® -  
Doorhandles and Accessories.

dormakaba Serie7® and Serie8® doorhandles, cylinder accessories and toilet accessories can be used in nonallergic environment when required and fulfills the demands according to EUs nickel directive 94/27/EG

The dormakaba Serie7® and Serie8® doorhandles and accessories have limits of nickel release below the compliance demands. This is proven by tests according to SS-EN 1811:2011+A1:2015. Products used in the tests are listed in table 2.

The dormakaba Serie7® and Serie8® products also comply to the REACH declaration regarding chrome-6 and other chemicals.

Text from RISE test report O100152-141630 and O100152-169648

Method:

Samples with a coating layer; according to the standard a pre-screening shall be performed. The pre-screening is performed by a survey of the elemental composition using X-Ray Fluorescence (XRF) analysis using Thermo Niton XL3t Gold. The method is a semiquantitative analysis of the surface layer. Nickel was found. According to Annex C, SS-EN1811:2011+A1:2015, articles with nickel containing surface coatings shall be tested directly with this standard without any simulation of wear.

The samples were tested according to SS-EN 1811:2011+A1:2015 (Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin).

Result:

Articles intended to come into direct and prolonged contact with the skin have a migration limit of 0.5 µg/cm<sup>2</sup>/week. The demands for compliance are shown in Table 1.

The results from the determination of nickel release are shown in Table 2.

**Table 1: Compliance demands according to SS-EN 1811:2011+A1:2015**

	<b>Results,</b>  µg/cm <sup>2</sup> /week	<b>Compliance</b>
<b>Compliance demands</b>	≥ 0.88	No
	< 0.88	Yes

**Table 2: Nickel release**

Sample identification	Sample volume, ml	Area, cm <sup>2</sup>	Measured value, $\mu\text{g}/\text{cm}^2/\text{week}$			Compliance
			A	B	C	
1. DH 7020 CRP, chrome, Chrome process	30	44	<0,01	<0,01	<0,01	Yes
2. DH 7020 CRM, satin chrome, Chrome process	30	44	<0,01	<0,01	<0,01	Yes
3. DH 7020 MB, brass, PVD coated	30	44	<0,01	<0,01	<0,01	Yes
4. DH 7020 CRS, chrome steel, Chrome process	30	44	<0,01	<0,01	<0,01	Yes
<b>Comment:</b> Quantification limit of the method is 0.01 $\mu\text{g}/\text{cm}^2/\text{week}$ .						

**Table 2: Nickel release**

Sample identification	Sample volume, ml	Area, cm <sup>2</sup>	Measured value, $\mu\text{g}/\text{cm}^2/\text{week}$			Compliance
			A	B	C	
1. DH8060-CRS	35	75	<0,01	<0,01	<0,01	Yes
2. DH8060-CRP	35	75	0,01	<0,01	<0,01	Yes
<b>Comment:</b> Quantification limit of the method is 0.01 $\mu\text{g}/\text{cm}^2/\text{week}$ .						

Best Regards



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