

The emission limits of the „TA-Luft“



Standard for clean air

Do your systems comply with the emission limits of the „TA-Luft“ regulations? („TA-Luft“ = technical instructions on air quality control)

Total dust including particulate matter. Either mass flow or mass concentration must be adhered to.

Comparison of the most important limit values

„TA-Luft“		Former 2002	Today 2021
Mass flow m_S	kg/h	0.2	0.2
Mass concentration m_K	mg/Nm ³	20	20 ¹

Dusty anorganic substances

„TA-Luft“		Former 2002	Today 2021
Category I			
- Quicksilver and its compounds	indicated as Hg		
- Thallium and its compounds	indicated as Tl		
Mass flow m_S	g/h	0.25	0.05
Mass concentration m_K	mg/Nm ³	0.05	0.01
Category II			
- Lead and its compounds	indicated as Pb		
- Cobalt and its compounds	indicated as Co		
- Nickel and its compounds	indicated as Ni		
- Selenium and its compounds	indicated as Se		
- Tellurium and its compounds	indicated as Te		
Mass flow m_S	g/h	2.5	2.5
Mass concentration m_K	mg/Nm ³	0.5	0.5
Category III			
- Antimony and its compounds	indicated as Sb		
- Chrome and its compounds	indicated as Cr		
- Cyanide easily soluble (eg. NaCN)	indicated as CN		
- Fluoride easily soluble (eg. NaF)	indicated as F		
- Copper and its compounds	indicated as Cu		
- Manganese and its compounds	indicated as Mn		
- Vanadium and its compounds	indicated as V		
- Stannous and its compounds	indicated as Sn		
Mass flow m_S	g/h	5	5
Mass concentration m_K	mg/Nm ³	1	1

¹ with $m_S > 0.4$ is $m_K = 10$

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Organic materials

All substances of category I are listed in appendix 4. The substances of category II are directly indicated in the text (10 substances). Category III no longer exists.

„TA-Luft“		Former 2002	Today 2021
Mass flow m_S	kg/h	0.5	0.5
Mass concentration m_K	mg/Nm ³	50	50
Category I			
Mass flow m_S	kg/h	0.1	0.1
Mass concentration m_K	mg/Nm ³	20	20
Category II			
Mass flow m_S	kg/h	0.5	0.5
Mass concentration m_K	mg/Nm ³	100	100

Cancerogenic substances

„TA-Luft“		Former 2002	Today 2021
Category I			
- Arsen and its compounds (except arsine)	indicated as As		
- Benzo(a)pyrene			
- Cadmium and its compounds	indicated as Cd		
- Water-soluble cobalt compounds	indicated as Co		
- Chrome(VI) compounds (except Barium and lead chromate)	indicated as Cr		
Mass flow m_S	g/h	0.15	0.15
Mass concentration m_K	mg/Nm ³	0.05	0.05
Category II			
- Nickel and its compounds (except nickel metal, nickel alloys, nickel carbonate, nickel hydroxide, nickel tetracarbonyl)	indicated as Ni		
- further mainly organic gaseous substances			
- Quartz dust PM4			
Mass flow m_S	g/h	1.5	1.5
Mass concentration m_K	mg/Nm ³	0.5	0.5
Category III			
- Benzole, vinyl chloride further mainly organic gaseous substances			
Mass flow m_S	g/h	2.5	2.5
Mass concentration m_K	mg/Nm ³	1.0	1.0
- Formaldehyde			
Mass flow m_S	g/h	no regulation	12.5
Mass concentration m_K	mg/Nm ³	no regulation	5