




Dust class	Max. permeation level	Suitable for	Application
L 	≤ 1.0%	<ul style="list-style-type: none"> ■ Dusts with MAC values > 1 mg/m³ 	<ul style="list-style-type: none"> ■ Lime dusts ■ Gypsum dusts
M 	< 0.1%	<ul style="list-style-type: none"> ■ Dusts with MAC values ≥ 0.1 mg/m³ ■ Wood dusts up to 1200 W/50 l 	<ul style="list-style-type: none"> ■ Wood dusts (beech, oak) ■ Paint dust particles ■ Ceramic dusts ■ Dusts from plastics
H 	< 0.005%	<ul style="list-style-type: none"> ■ Dusts with MAC values < 0.1 mg/m³ ■ Carcinogenic dusts (Section 35 GeStoffV (German Ordinance on Hazardous Substances)) ■ Pathogenic dusts 	<ul style="list-style-type: none"> ■ Carcinogenic dusts (lead, coal, cobalt, nickel, tar, copper, cadmium, etc.) ■ Mould, bacteria ■ Germs ■ Formaldehyde

3 Dust classes

L class: dusts in dust class L are only slightly hazardous. An L-filter may only allow a maximum of 1% of the test dust to pass through. All Kärcher flat pleated filters easily comply with this requirement – they are all certified for dust class M! The legal maximum allowable concentration of L-dusts must not exceed 1 mg/m³. There are no special precautions for the disposal of L-dusts.

M class: dusts in dust class M are hazardous. The maximum permeation level of a tested M vacuum cleaner is less than 0.1%. The legal maximum allowable concentration of M-dusts must not exceed 0.1 mg/m³. M-dusts must be disposed of with low dust development.

H class: dusts in dust class H are highly hazardous. The maximum permeation level of a tested H vacuum cleaner must be less than 0.005%. The legal maximum allowable concentration of H-dusts is less than 0.1 mg/m³. Due to the high risk posed by these carcinogenic and pathogenic dusts, disposal must take place in a dust-free manner.