

**KÄRCHER**



# DISINFECTION CLEANING WITH STEAM

Sales Information Kärcher Professional  
Steam Cleaners

DATE: 18.03.2020



# CURRENT LEVEL OF KNOWLEDGE REGARDING COVID-19

- The new Corona-Virus COVID-19 is not yet examined sufficiently to have certified and tested methods for disinfection
- Currently the virus is known to be comparable to SARS-coronavirus (SARS-CoV), therefore findings to that virus can be transferred to COVID-19
- For SARS-coronavirus it is known that a heat treatment with temperatures  $>60^{\circ}\text{C}$  inactivate the virus
- Kärcher professional steam cleaners SG 4/4 and SGV 8/5 are tested positive against heat resistant bacteria (*Enterococcus hirae* ATCC 10541) by an external, independent laboratory. The test certificates and reports are available
- We recommend to use the same disinfectant method for disinfecting surfaces likely to be contaminated with COVID-19



**KILLS 99.999%\* OF BACTERIA  
WITHOUT CHEMICALS**

**CERTIFIED  
DISINFECTION**

\*According to prEN 16615, PVC-floor, machine: SG 4/4 (Floor nozzle with lamellae, 30 cm/sec., steam pressure maximum, VapoHydro minimum)  
Test-germ: Enterococcus hirae ATCC 10541



# SG 4/4

ENTRY CLASS PROFESSIONAL STEAM CLEANER WITH CONTINUOUS OPERATION AND VAPOHYDRO FUNCTION

## Target Group



## Application

- ✓ steam cleaner for daily cleaning requirements
- ✓ application in small areas, sanitary facilities, for textiles etc.

## Key Features

- ✓ continuous working through 2-tank system
- ✓ VapoHydro: variable adjustment of steam saturation
- ✓ variable adjustment of steam pressure
- ✓ numerous accessories for different cleaning tasks





# SG 4/4 - CERTIFIED DISINFECTION STEAM CLEANING

## Bactericidal Efficacy Certificate

**LABOR ENDERS**  
Prof. Dr. med. Gisela Enders & Kollegen • MVZ  
Prof. Dr. med. G. Enders • Postfach 10 12 34 • 70391 Stuttgart

**Expert Opinion**  
**on the Bactericidal Efficacy**  
**of the**  
**Steam Cleaner**  
**SG 4/4**  
**(Alfred Kärcher GmbH & Co. KG)**

**Test organism**  
***Enterococcus hirae* ATCC 10541**  
**clean conditions**

Full report

**LABOR ENDERS**  
Prof. Dr. med. Gisela Enders & Kollegen • MVZ  
Bosenbergstraße 85 • 70393 Stuttgart

Akreditiert nach  
DIN EN ISO/IEC 15189,  
TÜV SÜD GAB

**DINAS**  
DIN EN ISO 9001  
DIN EN ISO 14001

**COO**  
ACCREDITED  
**CLIA**  
ACCREDITED

**Certificate**  
**Bactericidal Efficacy of the Steam Cleaner SG 4/4**  
**with floor nozzle with lamellae**  
of the company  
Alfred Kärcher GmbH & Co. KG, Alfred-Kärcher-Str. 28-40, 71364 Winnenden  
using the standardised process of the 4-Field-Test

At the request of Alfred Kärcher GmbH & Co. KG Winnenden, the bactericidal efficacy of the **Steam Cleaner SG 4/4** with floor nozzle with lamellae was tested. The simulation of practical conditions using the standardised process of the 4-Field-Test was applied. Therefore, the bactericidal efficacy of the Steam Cleaner SG 4/4 was evaluated under clean conditions on standardised PVC flooring. All of the fields were cleaned at a speed of 30 cm/s during the wiping process.

Steam Cleaner SG 4/4 with floor nozzle with lamellae (Alfred Kärcher GmbH & Co. KG)		<b>Log- reduction</b>
Device setting	maximum steam quantity controller minimum VapoHydro regulation	
Test procedure	4-Field-Test, contact plates	5.56 log <sub>10</sub>
Test organism	<i>Enterococcus hirae</i> ATCC 10541 (intestinal bacteria resist against higher temperatures)	> 99.999%
Interfering substance	clean conditions	
Test surface	PVC-flooring	
Speed	30 cm/s	

The efficacy of the Steam Cleaner SG 4/4 was shown in three independent tests with a significant 5.56 log reduction of the test organism *Enterococcus hirae* ATCC 10541. Therefore, a bactericidal efficacy of 99.999% has been scientifically confirmed. RC/DAC plates were used to find the remaining quantity of the bacterial load on the cotton mops. These investigations showed that the test organisms on the cotton mops were killed by the steam, and no other bacteria were found on the floor cloths.

The disinfecting effect of the Steam Cleaner SG 4/4 was proved by a > 5 log reduction.

Stuttgart, 2019-01-27

*M. Eggers*  
Priv.-Doz. Dr. med. nat. Maren Eggers

*M. Kreuzberger*  
Dipl.-Biol. Marion Kreuzberger

One pager

# THE KEY COMMUNICATION MESSAGE IS “CERTIFIED DISINFECTION” – KILLS 99,999 % BACTERIA AS SUBMESSAGE

## Communication message

Key message

**Certified disinfection\***

Sub message

**Kills 99,999 % bacteria without chemicals\***

\* - footnote

\*Accordant to prEN 16615, PVC floor, Machine: SG 4/4 (Floor nozzle with lamellae, 30 cm/sec., steam pressure maximum, VapoHydro minimum) Test-germ: Enterococcus hirae ATCC 10541

Logos



In order to avoid legal risks, whenever using the messages “certified disinfection” or “kills 99,999 % bacteria without chemicals”, the footnote “\* Accordant to prEN 16615, PVC floor, Machine: SG 4/4 (Floor nozzle with lamellae, 30 cm/sec., steam pressure maximum, VapoHydro minimum) Test-germ: Enterococcus hirae ATCC 10541” has to be declared!

# SGV 8/5

## MULTIFUNCTIONAL PROFESSIONAL STEAM VACUUM CLEANER

### Target Group



### Application

- ✓ steam vacuum cleaner for medium-heavy cleaning requirements
- ✓ large areas, special-care homes, sanitary cleaning, canteen and kitchen cleaning

### Key Features

- ✓ steaming and vacuuming in one step
- ✓ detergent mode and self-cleaning function
- ✓ variable adjustment of steam saturation (VapoHydro) and steam pressure directly at the handtool





# SGV 8/5 - CERTIFIED DISINFECTION STEAM VACUUM CLEANING

## Bactericidal Efficacy Certificate

**LABOR ENDERS**  
 Prof. Dr. med. Gisele Enders & Kollegen • MVZ  
Prof. Dr. med. G. Enders • Postfach 10 12 38 • 70309 Stuttgart

**Expert Opinion**  
**on the Bactericidal Efficacy**  
**of the**  
**Steam Vacuum Cleaner**  
**SGV 6/5**  
**(Alfred Kärcher GmbH & Co. KG)**

**Test organism**  
**Enterococcus hirae ATCC 10541**  
**clean conditions**

Full report

**LABOR ENDERS**  
 Prof. Dr. med. Gisele Enders & Kollegen • MVZ  
 Rosenbergsstraße 85 • 70193 Stuttgart

Akkreditiert nach  
DIN EN ISO/IEC 17025 und CAP  
17025  
  
  


**Certificate**  
**Bactericidal Efficacy of the Steam Vacuum Cleaner SGV 6/5**  
**with floor nozzle and rubber lip insert**  
 of the company  
 Alfred Kärcher GmbH & Co. KG, Alfred-Kärcher-Str. 28-40, 71364 Winnenden  
 using the standardised process of the 4-Field-Test

At the request of Alfred Kärcher GmbH & Co. KG Winnenden, the bactericidal efficacy of the Steam Vacuum Cleaner SGV 6/5 with floor nozzle and rubber lip insert was tested. The simulation of practical conditions using the standardised process of the modified 4-Field-Test was applied. Therefore, the bactericidal efficacy of the Steam Vacuum Cleaner SGV 6/5 was evaluated under clean conditions. Initially the contaminated PVC surface was pre-treated with maximum steam quantity. Afterwards all of the fields were cleaned at a speed of 30 cm/s during the wiping process in a combined steam/suction operation.

Steam Vacuum Cleaner SGV 6/5 with floor nozzle and rubber lip insert (Alfred Kärcher GmbH & Co. KG)		Log-reduction
Device setting	preparatory treatment and practical application steam maximum, steam quantity regulation (level III)	
Test procedure	according to 4-Field-Test	5.56 log <sub>10</sub> > 99,999%
Methodical approach	preparatory treatment: steam operation practical application: steam/suction operation	
Test organism	Enterococcus hirae ATCC 10541 (intestinal bacteria resist against higher temperatures)	
Interfering substance	clean conditions	
Test surface	PVC flooring	
Speed	30 cm/s	

The Steam Vacuum Cleaner SGV 6/5 demonstrated a 5.56 log reduction of the test organism *Enterococcus hirae* ATCC 10541 in three independent tests. Therefore, a bactericidal efficacy of 99.999% has been scientifically confirmed.

The disinfecting effect of the Steam Vacuum Cleaner SGV 6/5 resulted in a > 5 log reduction for a combined steam/suction operation after a pre-treated steam operation.

Stuttgart, 2015-05-21

  
 Priv.-Doz. Dr. rer. nat. Maren Eggers

  
 Dipl.-Biol. Marion Kreuzberger

One pager

# THE KEY COMMUNICATION MESSAGE IS “CERTIFIED DISINFECTION” – KILLS 99,999 % BACTERIA AS SUBMESSAGE

## Communication message

Key message

**Certified disinfection\***

Sub message

**Kills 99,999 % bacteria without chemicals\***

\* - footnote

\*According to prEN 16615, PVC-floor, machine: SGV (floor nozzle, 30 cm/sec., 1.steam, 2.steam vacuum, level 3) Test-germ: Enterococcus hirae ATCC 10541

Logos



In order to avoid legal risks, whenever using the messages “certified disinfection” or “kills 99,999 % bacteria without chemicals”, the footnote “\*According to prEN 16615, PVC-floor, machine: SGV (floor nozzle, 30 cm/sec.,1.steam, 2.stem vacuum, level 3) Test-germ: Enterococcus hirae ATCC 10541 “ has to be declared!

# SGV 8/5 - CERTIFIED DISINFECTION STEAM VACUUM CLEANING

HACCP Standard

ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT

  
Product Service

**CERTIFICATE**  
No. Z2 16 01 10088 01522

Holder of Certificate: **Alfred Kärcher GmbH & Co. KG**  
Alfred-Kärcher-Strasse 28-40  
71384 Winnenden  
GERMANY

**KÄRCHER**

Production Facility(ies): 23490

Certification Mark:   

Product: **Steam cleaner**  
Spray - extraction machine with steam function

Model(s): **SGV 8/5**

Parameters:

Rated voltage:	220-240V ~
Rated frequency:	50Hz
Rated power:	3,4kW
Protection class:	I
Degree of protection:	IPX4
Working pressure:	0,8MPa
Steam pressure (max.):	1,2MPa
Weight:	40kg
Dimensions (LxWxH in mm):	640x495x965

Tested according to: EN 60335-2-68:2012  
EN 60335-1:2012/A11:2014  
PPP 11013A:2010

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 713044913  
Valid until: 2021-01-21

Date: 2016-01-22  
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(Matthias Krebs)

 

TUV SUD Product Service GmbH · Zertifizierstelle · Ridlerstraße 65 · 90339 München · Germany

TUV®

- ✓ certified for HACCP hygiene management
- ✓ HACCP is a standardized process to prevent hygiene risks in food-processing plants, **hospitals, hotels**, commercial kitchens, etc..
- ✓ HACCP is reached as surfaces are not just cleaned thoroughly (99.9% of protein and starch-based soiling), but germs are also reduced by up to 3 log units.

# GENERAL INFORMATION DISINFECTION CLEANING WITH STEAM

## 7 tips to ensure a complete disinfection cleaning

- ✓ make sure, that the steam cleaner itself is clean. If this is not sure please follow the machine cleaning instructions in the manual (chapter „After each operation“)
- ✓ remove loose pollutions and coarse dirt before the disinfection cleaning
- ✓ only start the disinfection cleaning after the heating of the machine is completed
- ✓ work with dry steam this means full force of the steam level and minimum VapoHydro function
- ✓ the cleaning speed must be kept on 30 cm per second (this corresponds approx. the length of a DIN A4 paper in 1 second)
- ✓ make sure to work in overlapping paths. Every inch of the surface needs to be reached!
- ✓ always stick to the instructions in the manual



**MAKE A DIFFERENCE**  
THANK YOU