



Handle 3RX



Pull handle 3 - 250



Pull handle 3 - 200

Handle 4RX



Handle 3C



Deadbolt 9RX



Cylinder key 3



Handle 4C

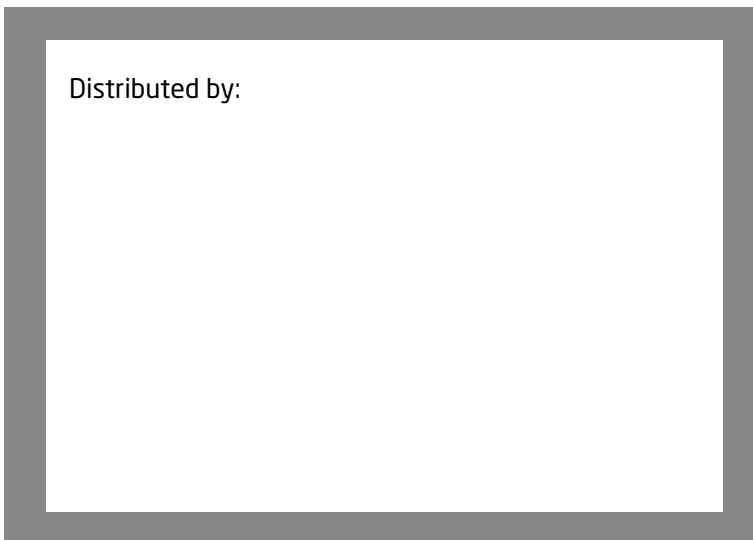


Deadbolt 4



**Avoids infections by contact**

**The hygiene and health  
series 18/8 stainless steel  
range**



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The concerns arising from the current situation has meant that many of us are searching for solutions to ensure a safer and more hygienic environment. At AMIG, we have therefore developed **the new AMHYG series of handles and accessories with microbial properties.**

How have we achieved this? The components of the **anti-bacterial coating** of the AMHYG handles prevent bacteria and fungi forming and reproducing on their surfaces.



That serie is certified as per the JIS: Z 2801 2012 japanese standard for antimicrobial products and the ISO 22196:2011 international standard.

Both tests analyse the activity of the three main bacteria causing the majority of nosocomial infections\*:



\* In healthcare, a nosocomial infection is one contracted by patients admitted to a healthcare facility (not only hospitals).

**The silver ion antimicrobial technology** is a silver-based active ingredient that provides the product with continuous protection against bacterial growth (24/7).

The product surfaces are **coated** with glass ceramic with **silver phosphate** that releases those ions.

These small amounts of silver interrupt the metabolism of the bacteria by preventing them from converting nutrients into energy, which inhibits the survival, reproduction and colonisation of those microorganisms.

## CERTIFICATES

The results of the test on inoculated surfaces indicate that our products have attained **"strong" effectiveness of the antibacterial value** (A > 3 effect).

Effectiveness of the antibacterial property	Antibacterial effectiveness index A (log10KBE)
None	A < 2
Significant	A ≤ 2 < 3
Strong	A ≥ 3

This means a **reduction**, in 24 hours, of **the presence of the bacteria** analysed **over 99.90%**, and up to 99.99% in the case of E. coli and S. aureus.

For example, using the AMHYG coating, we reduce a surface with 100,000,000 E. coli bacteria to under 10,000 units in 24 hours.

Useful life of the coating: **100,000 opening cycles.**



### Certificates:

- JIS Z 2801 2012 (Japanese Industrial Standard Test for Antimicrobial Activity and Efficacy).
- ISO 22196:2011 (Measurement of antibacterial activity on plastics and other non-porous surfaces).

### Test procedures:

A fine layer of the test germs was applied to the AMHYG products and let to incubate for 24 hours.

TEST RESULT			
Test Result(s):			
Test Requested: Assessment of Antimicrobial activity			
Test Method: JIS Z 2801:2010 Antimicrobial products - Test for antimicrobial activity and efficacy			
GZF20-021168.001			
Test organism(s)	Escherichia coli ATCC 8739	Staphylococcus aureus ATCC 6538P	
Concentration of bacteria (CFU/mL)	5.3x10 <sup>5</sup>	5.1x10 <sup>5</sup>	
Volume of test inoculum (mL)	0.2	0.2	
U <sub>h</sub>	3.85	3.82	
U <sub>t</sub>	5.42	5.59	
At	-0.20	1.90	
B (CFU/cm <sup>2</sup> )	2.7x10 <sup>5</sup>	3.9x10 <sup>5</sup>	
C (CFU/cm <sup>2</sup> )	0.63	7.8x10 <sup>1</sup>	
R	5.6	3.7	
Antibacterial activity rate (%)*	>99.99	99.90	
Test organism(s)	Klebsiella pneumoniae ATCC 4352**		
Concentration of bacteria (CFU/mL)	6.2x10 <sup>5</sup>		
Volume of test inoculum (mL)	0.2		
U <sub>h</sub>	3.89		
U <sub>t</sub>	4.40		
At	-0.20		
B (CFU/cm <sup>2</sup> )	2.5x10 <sup>4</sup>		
C (CFU/cm <sup>2</sup> )	0.63		
R	4.6		
Antibacterial activity rate (%)*	>99.99		
Test Result(s):			
Test Requested: Test of antimicrobial activity			
Test Method: ISO 22196:2011 Measurement of antibacterial activity on plastics and other non-porous surfaces			
GZF20-019852.001			
Test organism(s)	Escherichia coli ATCC 8739	Klebsiella pneumoniae ATCC 4352	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (cells/mL)	6.8x10 <sup>5</sup>	5.3x10 <sup>5</sup>	6.3x10 <sup>5</sup>
Volume of test inoculum (mL)	0.2	0.2	0.2
U <sub>h</sub>	3.92	3.82	3.89
U <sub>t</sub>	5.41	4.78	5.61
At	-0.20	-0.20	-0.20
B (cells/cm <sup>2</sup> )	2.6x10 <sup>5</sup>	6.1x10 <sup>4</sup>	4.1x10 <sup>5</sup>
C (cells/cm <sup>2</sup> )	0.63	0.63	0.63
R	5.6	5.0	5.8
*The antibacterial activity rate (%)	>99.99	>99.99	>99.99