



The **simplesta**[®] SH stainless steel pipe system

The New standard for stainless steel for heating installations and cooling circuits

The **simplesta**[®] SH stainless steel pipe system:

MPA NRW – QUALITY LABEL

ESTA ROHR GMBH HAS DEVELOPED THE FIRST STANDARD FOR A STAINLESS STEEL PIPE SYSTEM FOR HEATING INSTALLATIONS AND COOLING CIRCUITS WITH THE INVOLVEMENT OF THE NORTH RHINE-WESTPHALIA MATERIALS TESTING OFFICE (MPA NRW).

Our **simplesta**[®] SH stainless steel pipe system for heating and industrial installations formed the starting point for this. Unlike conventional supply systems, our **simplesta**[®] SH is made of stainless steel. You and your customers both benefit from lasting, outstanding quality and easy handling at unbeatable value for money now and for decades to come.

TEST OVERVIEW

Testing carried out:
April 2018 to August 2019
Certification number:
MPA NRW - 00648



INTERGRANULAR CORROSION

Boiling in test solution of copper (II) sulphate pentahydrate, demineralised water, sulphuric acid and copper chips for 20 hours
Then bending and examination for cracking



VACUUM TEST

1 hour at -0.8 bar



LEAK BEFORE PRESS

Leakage test 1 to 6.5 bar (air)
Leakage test 1 to 6.5 bar (water)
Then pressed and
1 hour leakage test 25 °C / 25 bar



OVERPRESSURE TEST

48 hours, 93 °C, 15 bar
48 hours, 20 °C, 25 bar



VIBRATION TEST

20 times per second

+/- 1 mm deflection,
1,000,000 times,
room temperature



PRESSURE SURGE TEST

From 1 to 25 bar, 30 times per minute,
10,000 runs



TEMPERATURE FLUCTUATION TEST

5,000 times from 20 °C (15 minutes)
93 °C (15 minutes) and back =
2,500 times 15 minutes cold and
2,500 times 15 minutes hot
10 bar internal pressure



RESILIENCE TO MALFUNCTIONS

Finally
TWT 60 minutes, 95 °C

NEW STANDARDS WITH THE MPA NRW

The MPA NRW has been testing our **simplesta® SH** stainless steel pipe system since spring 2018 – the system's resistance has been confirmed in a series of trials. Structural performance, functionality and reliability has been proven even over very long cycles and under extreme loads. The **simplesta® SH** stainless steel pipe system system works!

Initial testing was completed in August 2019 and nothing else stood in the way of official certification. We are the first manufacturer to be able to give our customers a performance guarantee based on reliable data from the Materials Testing Office for **„longitudinally welded pipes and press fittings made of stainless steels for use in heating installations and cooling circuits“**.

In addition to the initial testing and alongside our – in our view obligatory – internal quality management, the MPA NRW also carries out regular inspections.

WHAT ARE THE BENEFITS OF CERTIFICATION?

PROVEN QUALITY

Vendors, planners, installers and the final user can be confident that this product bearing the MPA Quality Label has been tested by competent experts.

STATE-OF-THE-ART TECHNOLOGY

The label confirms that the purchased product corresponds to the recognised state of the art, according to the certification program.

DUTY OF CARE

Vendors, planners and installers can be confident that the satisfaction of their duty of care will be exceeded when the product is used properly.



The simplesta® SH stainless steel pipe system:

THE NEW STANDARD FOR STAINLESS STEEL

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