

TDA – Technical Data Sheet – Essge NCS HT

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ESSGE-PLAST AB

Technical Data Sheet ESSGE NCS HT



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Essge NCS HT - Technical data sheet

The Technical Data Sheet provides comprehensive technical specifications for all HT (High Temperature) Essge NCS products. The Essge NCS Spacer Band HT is manufactured from AISI 316L stainless steel band with integrated polymer legs (spacers) that faces the steel surface. The AISI 316L meets or exceeds the values for the parameters mentioned in the table below.

The purpose of this document is to consolidate all relevant technical data into a single reference source, which can also serve as supporting material for project documentation and reporting. For additional information or specific inquiries, please contact ESSGE-PLAST AB (essgens@essgeplast.se) or your local distributor.

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Property	HT (Beige)	Test Method	Comment
Polymer type	Polyetherimide (PEI)		
Maximum Operating Temperature (Continuous)	160 °C	IEC 60216	
Maximum Operating Temperature (Short-term)	219 °C	ASTM D 1525	
Minimum Operating Temperature	-30 °C	HT = ISO 179/1eU	Essge NCS has been tested in -30 with no impact. This will either indicate that the lowest operating temperature are -30°C or that Essge NCS can operate in lower temperatures then tested.
ESSGE NCS Spacer ring - Failure load	3,0kN		An in-house test was performed in which a load was applied to the ESSGE NCS Spacer Ring mounted on a pipe. No deformation, cracking, or other functional defects were observed.
ESSGE NCS Spacer Button - Failure load	2,0kN		An in-house test was performed in which a load was applied to the ESSGE NCS Spacer Button mounted on a pipe. No deformation, cracking, or other functional defects were observed.
Flammability	UL Recognized, 94-5VA: >= 1.9 mm	UL 94	Lowest possible for polymers

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Flammability	UL Recognized, 94V-0: ≥ 0.41 mm	UL 94	Lowest possible for polymers
Toxicity and Smoke Density	Class F1	IEC 60695-11-10, -20	Highest classification, polymer allowed for use in passenger trains. Standard: NF F16-101
Acoustic properties	For pipe diameter up to 300 mm: Class A1, B1, C1	ISO 15665:2003	Insulation in 85 mm thickness, Essge NCS Band and 1 mm of steel cladding.
Acoustic properties	For pipe diameter 300-650 mm: Class A2, B2, C2	ISO 15665:2003	Insulation in 85 mm thickness, Essge NCS Ring and 1 mm of steel cladding.
Manufactured in	Sweden		Manufactured by Essge-Plast AB in Östersund, Sweden.