

TDA – Technical Data Sheet – Essge NCS LT

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ESSGE-PLAST AB

Technical Data Sheet ESSGE NCS LT



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Essge NCS LT - Technical data sheet

The Technical Data Sheet provides comprehensive technical specifications for all LT (Low Temperature) Essge NCS products.

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 (essgencs@essgeplast.se) or your local distributor.

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Property	LT (Black)	Test Method	Comment
Maximum Operating Temperature (Continuous)	100 °C	IEC 60216	
Maximum Operating Temperature (Short-term)	140 °C	ASTM D 1525	
Minimum Operating Temperature	-30 °C	LT = ISO 179/1eA	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	3,2kN		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	1,0kN		Inhouse test with a weight on ESSGE NCS Spacer ring mounted on a pipe. No deformation, cracks or other malfunctions to the product were identified.
Flammability	UL Recognized, 94-5VA: 1.5 mm	UL 94	Lowest possible for polymers
Flammability	UL Recognized, 94V-0: >= 1.5 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

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Number of Spacers Required	3 pcs/meter of pipe		CC distance 330 mm, spacer button in joints. Four spacers first and last meter.
Acoustic properties	Please see HT variant.	ISO 15665:2003	Insulation in 85 mm thickness, Essge NCS Band and 1 mm of steel cladding.
Acoustic properties	Please see HT variant.	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.