# TATA STEEL

### **Declaration of Performance**

(according to Regulation EU No 305/2011)

Unique ID code TSNT 420MLH [Grade S420MLH / 1.8848]

Harmonised standard EN 10219-1:2006 - Cold formed welded structural

hollow sections of non-alloy and fine grain steels -Part 1: Technical delivery conditions (issued on the Official Journal of the European Union on

01/02/2007)

Intended use To be used in metal structures or in composite metal and concrete structures. This product is

metal and concrete structures. This product is supplied with a specific inspection document 3.1 (according to EN 10204) that includes the full length non-destructive testing of the weld (as defined in table 2 of EN 10219-1). This product is suitable for being used as constituent product of a steel structure according to EN 1090. Table 1 of EN 1090-2:2018 requires a 3.1 inspection document for

structural steel above S275.

Manufacturer TATA STEEL NEDERLAND TUBES BV

Registered in Netherlands No. 20022812

Registered office: Souvereinstraat 35, Oosterhout,

4903 RH. Netherlands

Website: www.tatasteeleurope.com

System of AVCP System of assessment and verification of constancy

of performance of the product System 2+ (FPC Certificate No: 2814/CPR/RQA2007001/A)

Notified body No. 0343

LRQA Nederland B.V. George Hintzenweg 77 3068 AX Rotterdam Netherlands

DocuSigned by:

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Jacob Gerkema Managing Director Tata Steel Nederland Tubes B.V. Souvereinstraat 35, Oosterhout, 4903 RH Netherlands Date 01/04/2024





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TATA STEEL NEDERLAND TUBES BV Registered in Netherlands No. 20022812 Registered office: Souvereinstraat 35, Oosterhout, 4903 RH, Netherlands

24

TSNT 420MLH [Grade S420MLH / 1.8848]

EN 10219-1:2006

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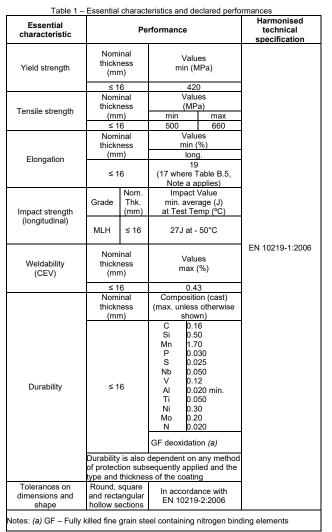
Performance declared for the following essential characteristics:

Yield strength: 420 MPa
Tensile strength: 500 – 660 MPa
Elongation: 19% (17% where Table B.5.a applies)
Impact strength: 27J at - 50°C
Weldability (CEV): 0.43%

**Durability:** See Declaration of Performance **Tolerances on dimensions and shape:** In accordance with

EN 10219-2:2006

Dangerous Substances: No Performance Determined (NPD)



## TATA STEEL

#### **Declaration of Performance**

(according to The Construction Products (Amendment etc.) (EU Exit) Regulations SI 2020-1359)

Unique ID code TSNT 420MLH [Grade S420MLH / 1.8848]

Designated standard EN 10219-1:2006 - Cold formed welded structural

hollow sections of non-alloy and fine grain steels -Part 1: Technical delivery conditions (issued on the Official Journal of the European Union on

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System of AVCP System of assessment and verification of constancy

of performance of the product System 2+ (FPC Certificate No: 0038/CPR/RQA20070001/A)

Continuate No. 0000/OF TUTOR IZO07000

Approved body Approved body No. 0038 LRQA Verification Ltd.

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Solihull, West Midlands

Birmingham

B37 7ES

United Kingdom

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Jacob Gerkema
Managing Director
Tata Steel Nederland Tubes B.V.
Souvereinstraat 35, Oosterhout, 4903 RH
Netherlands

Date 01/04/2024



Table 1 – Essential characteristics and declared performance
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Essential characteristic	Performance				Harmonised technical specification
Yield strength	Nominal thickness (mm)		Values min (MPa)		
	≤ 16		420		
	Nominal thickness		Values (MPa)		
Tensile strength	(mm)		min	max	
	≤ 16		500	660	
	Nominal thickness		Values min (%)		
Elongation	(mr	n)	long.		
Liongation	≤ 16		19 (17 where Table B.5, Note a applies)		
	Grade Nom. Thk. (mm)		Impact		
Impact strength (longitudinal)			min. average (J) at Test Temp (°C)		
	MLH	≤ 16	27J at	- 50°C	
Weldability (CEV)	Nominal thickness (mm)		Values max (%)		EN 10219-1:2006
	≤ 16		0.43		
	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)		
Durability	≤ 16		S 0.0 Nb 0.0 V 0.1 Al 0.0 Ti 0.0 Ni 0.1 Mo 0.1 N 0.0	50 70 70 330 325 550 12 220 min. 350 30 20 20 20	
	Durability is also dependent on any method of protection subsequently applied and the type and thickness of the coating				
Tolerances on dimensions and shape	Round, s and recta hollow se	angular	In accordance with EN 10219-2:2006		



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#### EN 10219-1:2006

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Performance declared for the following essential characteristics:
Yield strength: 420 MPa

Tensile strength: 500-660 MPa Elongation: 19% (17% where Table B.5.a applies)

Impact strength: 27J at - 50°C Weldability (CEV): 0.43%

Durability: See Declaration of Performance

Tolerances on dimensions and shape: In accordance with

EN 10219-2:2006

**Dangerous Substances:** No Performance Determined (NPD)