

STEEL PLATES FROM HOT ROLLED COILS

Grade: P355NH

Pressure Vessel Steel

Grade **P355NH**

Norm **EN10028-3**

W. Nr. **1.0565**

Rolling state **N – Normalized**

Description Weldable fine-grain structural steel for pressure vessels. High resistance to brittle cracking. Good weldability and good cold and hot-forming properties when it is rolled under normalised conditions

Applications Vessels for pressurised gas, pressure vessels, steam boiler parts, pressure piping, compressors and heat exchangers.

Standard coils' stock range

	1000	1500	2000
3		•	
3,5	•		
4		•	
5		•	•
6		•	•
6,3	•	•	
7			•
8	•	•	•
10		•	•
12		•	•
15			•

Dimensions other than the ones listed here can be sourced on agreement.

At times, some of the dimensions listed here might be unavailable: please make sure to get in touch with our sales department for a real-time update about the actual stock availability.

Chemical composition According to UNI EN 10028-3

Element	Al	B	C	Ceq	Cr	Cu	Mo	Mn	N
Min.	0,02							1,10	
Max			0,20		0,30	0,30	0,08	1,70	0,012

Element	Ni	Nb	P	S	Si	Sn	Ti	V	Zr
Min.									
Max	0,50	0,05	0,025	0,015	0,50		0,03	0,10	

Mechanical properties According to UNI EN 10028-2

Nominal Thickness (mm)	≤ 16	> 16
Yield Strenght (MPa)	≥ 355	≥ 345
Nominal Thickness (mm)	16 < t ≤ 60	
Tensile Strenght (MPa)	490-630	

Nominal Thickness (mm)	≤ 60		
Total Elongation A5%	≥ 22		
Temperatures (°C)	-20	0	20
Longitudinal Notch Impact Energy (J)	≥ 45	≥ 65	≥ 75
Transversal Notch Impact Energy (J)	≥ 30	≥ 40	≥ 50

Tolerances
Dimensional Tolerances

UNI EN 10051

Surface Status

UNI EN 10163-2

Equivalences

W. Nr.	ASTM ASME	England BS	Germany DIN	France AFNOR
1.0565	A516-70	225-490A/B	WstE355	A510AP

Certifications

■ EN10204-3.1

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