

HCT780X (1.0943)

Grade :	HCT780X
Number:	1.0943
Classification:	Alloy quality steel
Standard:	EN 10336: 2006 Continuously hot-dip coated and electrolytically coated strip and sheet of multiphase steels for cold forming. Technical delivery conditions EN 10346: 2009 Continuously hot-dip coated steel flat products. Technical delivery conditions
Equivalent grades:	HC420/780DPD+Z, HC420/780DPD+ZF

Chemical composition % of steel HCT780X (1.0943): EN 10336-2006

C	Si	Mn	P	S	V	Al	B	-
max 0.18	Max 0.8	Max 2.5	Max 0.08	Max 0.015	Max 0.2	Max 2	Max 0.005	Cr+Mo < 1, Nb+Ti < 0.15

Mechanical properties of steel HCT780X (1.0943)

R_m - Tensile strength (MPa)	780
R_{p0.2} 0.2% proof strength (MPa)	450-560
A - Min. elongation Lo = 80 mm (%)	14

Mechanical properties

P_{0.2} Minimum yield strength / Mindestwert der oberen Streckgrenze / Limite d elasticite minimale

P_n Tensile strength / Zugfestigkeit / Resistance a la traction

A Minimum elongation / Mindestwert der Bruchdehnung / Allongement minimal

J Notch impact test / Kerbschlagbiegeversuch / Essai de flexion par choc

Heat treatment conditions

+A Soft annealed

+AC Annealed to achieve spheroidization of the carbides

+AR As rolled

+AT Solution annealed

+C Cold drawn / hard

+CR Cold rolled

+FP Treated to ferrite-pearlite structure and hardness range

+I Isothermal annealing

+LC Cold drawn / soft

+M Thermo mechanical rolling

+N Normalized

+P Precipitation hardened

+PE Peeled

+QA Air quenched and tempered

+QL Liquid quenched and tempered

+QT Quenched and tempered

+S Treated to improve shearability

+SH As rolled and turned

+SR Cold drawn and stress relieved

+T Tempered

+NT Normalized and tempered

+TH Treated to hardness range

+WW Warm worked

+U Untreated

Alloy quality steel

Chemical composition of steel HCT780X (1.0943), Standards of steel HCT780X (1.0943)

Mechanical Properties of steel HCT780X (1.0943)

steel HCT780X (1.0943) Tensile Strength, Elongation, Proof strength , Hardness

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