

RQT 501[®] Data Sheet

RQT 501[®] is a quench and tempered structural steel, combining high strength with excellent forming and welding performance.

Chemical composition

Thickness* (mm)	C (%)	Si (%)	Mn (%)	S (%)	P (%)	Mo (%)	V (%)	Ni (%)	Al (%)	
8 ≤ t ≤ 100	max.	0.20	0.60	1.60	0.010	0.025	0.60	0.10	1.00	0.06

* Other gauges available by agreement.

RQT 501[®] is offered with the following CEV:

Thickness (mm)	Maximum ladle CEV* (%)
8 ≤ t ≤ 100	0.41

* Other maximum CEV available by agreement.

Mechanical properties

Thickness (mm)	Minimum yield strength (MPa)	Tensile strength (MPa)	Minimum elongation on 50mm gauge length (%)	Minimum average impact energy*	Minimum individual impact energy*
8 ≤ t ≤ 50	470	560 - 710	21	41 J @ -40 °C	29 J @ -40 °C
50 < t ≤ 80	430	530 - 700	21	41 J @ -40 °C	29 J @ -40 °C
80 < t ≤ 100	415	530 - 700	21	41 J @ -40 °C	29 J @ -40 °C

* Longitudinal Charpy V notch, transverse available by agreement

Testing in accordance with EN10002, EN10045

For plate thicknesses below 12.5mm reduced section Charpy test pieces are used with proportionate reduction of energy values.

Dimensions

RQT 501® is available in thicknesses 8mm to 100mm. Width and length availability is given in table 4 of the Plate products range of sizes brochure.

Tolerances

The manufacturing tolerances for RQT 501® are in compliance with EN10029:1991.

Surface quality of RQT 501® is compliant with EN10163:2004 class A subclass 1.

Other tolerances are available by agreement.

Fabrication and Welding

RQT 501® can be readily processed following the guidelines available in the RQT Fabrication guide.

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RQT 601® Data Sheet

RQT 601® is a quench and tempered structural steel, combining high strength with excellent forming and welding performance.

Chemical composition

Thickness* (mm)		C (%)	Si (%)	Mn (%)	S (%)	P (%)	Cr (%)	Mo (%)	Nb (%)	V (%)	Ni (%)	Cu (%)	B (%)
8 ≤ t ≤ 80	max.	0.20	0.50	1.60	0.010	0.025	1.00	0.60	0.06	0.08	1.00	0.40	0.004

* Other gauges available by agreement.

RQT 601® is offered with the following CEV:

Thickness (mm)	Maximum ladle CEV* (%)
8 ≤ t ≤ 25	0.43
25 < t ≤ 80	0.55

* Other maximum CEV available by agreement.

Mechanical properties

Thickness (mm)	Minimum yield strength (MPa)	Tensile strength (MPa)	Minimum elongation on 50mm gauge length (%)	Minimum average impact energy*	Minimum individual impact energy*
8 ≤ t ≤ 40	620	690 - 850	19	27 J @ -45 °C	20 J @ -45 °C
40 < t ≤ 80	550	670 - 850	19	27 J @ -45 °C	20 J @ -45 °C

* Longitudinal Charpy V notch, transverse available by agreement

Testing in accordance with EN10002, EN10045

For plate thicknesses below 12.5mm reduced section Charpy test pieces are used with proportionate reduction of energy values.

Dimensions

RQT 601® is available in thicknesses 8mm to 80mm. Width and length availability is given in table 4 of the Plate products range of sizes brochure.

Tolerances

The manufacturing tolerances for RQT 601® are in compliance with EN10029:1991.

Surface quality of RQT 601® is compliant with EN10163:2004 class A subclass 1.

Other tolerances are available by agreement.

Fabrication and Welding

RQT 601® can be readily processed following the guidelines available in the RQT Fabrication guide.

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RQT 701® Data Sheet

RQT 701® is a quench and tempered structural steel, combining high strength with excellent forming and welding performance.

Chemical composition

Thickness* (mm)		C (%)	Si (%)	Mn (%)	S (%)	P (%)	Cr (%)	Mo (%)	Nb (%)	V (%)	Ni (%)	Cu (%)	B (%)
8 ≤ t ≤ 130	max.	0.20	0.50	1.60	0.010	0.025	1.00	0.70	0.060	0.08	1.50	0.40	0.004

* Other gauges available by agreement.

RQT 701® is offered with the following CEV:

Thickness (mm)	Maximum ladle CEV* (%)
8 ≤ t ≤ 30	0.43
30 < t ≤ 40	0.53
40 < t ≤ 100	0.57
100 < t ≤ 130	0.61

* Other maximum CEV available by agreement.

Mechanical properties

Thickness (mm)	Minimum yield strength (MPa)	Tensile strength (MPa)	Minimum elongation on 50mm gauge length (%)	Minimum average impact energy*	Minimum individual impact energy*
8 ≤ t ≤ 70	690	790 - 930	18	27 J @ -45 °C	20 J @ -45 °C
70 < t ≤ 130	630	690 - 930	18	27 J @ -45 °C	20 J @ -45 °C

* Longitudinal Charpy V notch, transverse available by agreement

Testing in accordance with EN10002, EN10045

For plate thicknesses below 12.5mm reduced section Charpy test pieces are used with proportionate reduction of energy values.

Dimensions

RQT 701® is available in thicknesses 8mm to 130mm. Width and length availability is given in table 4 of the Plate products range of sizes brochure.

Tolerances

The manufacturing tolerances for RQT 701® are in compliance with EN10029:1991.

Surface quality of RQT 701® is compliant with EN10163:2004 class A subclass 1.

Other tolerances are available by agreement.

Fabrication and Welding

RQT 701® can be readily processed following the guidelines available in the RQT Fabrication guide.

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RQT 901 Data Sheet

RQT 901 is a quench and tempered structural steel, combining high strength with excellent forming and welding performance.

Chemical composition

Thickness* (mm)		C (%)	Si (%)	Mn (%)	S (%)	P (%)	Cr (%)	Mo (%)	Nb (%)	V (%)	Ni (%)	Cu (%)	B (%)
8 ≤ t ≤ 65	max.	0.20	0.50	1.60	0.010	0.025	1.00	0.60	0.06	0.08	1.00	0.40	0.004

* Other gauges available by agreement.

RQT 901 is offered with the following CEV:

Thickness (mm)	Maximum ladle CEV* (%)
8 ≤ t ≤ 65	0.55

* Other maximum CEV available by agreement.

Mechanical properties

Thickness (mm)	Minimum yield strength (MPa)	Tensile strength (MPa)	Minimum elongation on 50mm gauge length (%)	Minimum average impact energy*	Minimum individual impact energy*
8 ≤ t < 50	890	940 - 1100	11	27 J @ -40 °C	20 J @ -40 °C
50 ≤ t ≤ 65	830	880 - 1100	11	27 J @ -40 °C	20 J @ -40 °C

* Longitudinal Charpy V notch, transverse available by agreement

Testing in accordance with EN10002, EN10045

For plate thicknesses below 12.5mm reduced section Charpy test pieces are used with proportionate reduction of energy values.

Dimensions

RQT 901 is available in thicknesses 8mm to 65mm. Width and length availability is given in table 4 of the Plate products range of sizes brochure.

Tolerances

The manufacturing tolerances for RQT 901 are in compliance with EN10029:1991.

Surface quality of RQT 901 is compliant with EN10163:2004 class A subclass 1.

Other tolerances are available by agreement.

Fabrication and Welding

RQT 901 can be readily processed following the guidelines available in the RQT Fabrication guide.

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