

Database of Steel and Alloy (Marochnik)

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Characteristics for grade VT15 (BT15).

Grade :	VT15 (BT15)
Classification :	Titanium wrought alloy
Equivalent grades:	Is absent

Chemical composition in % for grade VT15 (BT15)

Fe	C	Si	Cr	Mo	N	Ti	Al	O	H	Impurity
max 0.3	max 0.1	max 0.15	9.5 - 11	6.8 - 8	max 0.05	76.8 - 81.4	2.3 - 3.6	max 0.12	max 0.012	other 0.3

Comment: Ti is a basis; the percentage of Ti is given approximately.

Mechanical properties under T=20°C for grade VT15 (BT15)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Sheet			900-1050	850	10-25			Annealing
Sheet			1350-1500	1180	4-8			Hardening and ageing

Brinell hardness for VT15 (BT15) (quenching, ageing) , Sheet	HB 10⁻¹ = 341 - 444 MPa
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Specification : Mechanical properties :

- σ_B - Tensile strength , [MPa]
- σ_T - Yield stress , [MPa]
- δ_5 - Specific elongation at fracture , [%]
- ψ - Reduction of area , [%]
- KCU** - Impact strength , [kJ / m²]
- HB** - Brinell hardness , [MPa]

Database of steels and alloys (Marochnik) contains information about chemical composition and properties more then 2500 steels and alloys (stainless steel, alloy steel, carbone steel, structural steel, tool steel, cast iron, aluminum alloy, titanium alloy, copper alloy, nickel alloy, magnesium alloy and others).
Helpfull for specialists in grade technology, structural engineer, mechanical engineer, metallurgy and metal trader

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