

Database of Steel and Alloy (Marochnik)

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[Home](#) [European steel grades](#) [Steel and Alloy](#) [Search](#) [Equivalent grades](#) [Grading](#) [GOST Standard](#) [Contacts](#)

YOU HERE: [Steel and Alloy](#) -> [Bronze](#)

Characteristics for grade BrA11ZH6N6 (БpA11Ж6H6).

Grade :	BrA11ZH6N6 (БpA11Ж6H6) (БpАЖН11-6-6)
Classification :	Tin-free foundry bronzes
Equivalent grades:	Is absent

Chemical composition in % for grade BrA11ZH6N6 (БpA11Ж6H6)

Fe	Si	Mn	Ni	P	Al	Cu	As	Pb	Zn	Sb	Sn	Impurity
5 - 6.5	max 0.2	max 0.5	5 - 6.5	max 0.1	10.5 - 11.5	74 - 79.5	max 0.05	max 0.05	max 0.6	max 0.05	max 0.2	all 1.5

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

Mechanical properties under T=20°C for grade BrA11ZH6N6 (БpA11Ж6H6)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
cast in a metal mould, GOST 493-79			587		2			
sand (mould) casting, GOST 493-79			587		2			

Brinell hardness for BrA11ZH6N6 (БpA11Ж6H6) , cast in a metal mould GOST 493	HB 10⁻¹ = 250 MPa
Brinell hardness for BrA11ZH6N6 (БpA11Ж6H6) , sand (mould) casting GOST 493	HB 10⁻¹ = 250 MPa

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

[Top](#)

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