

# Database of Steel and Alloy (Marochnik)

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## Characteristics for grade N16K11M3T2 ( H16K11M3T2 ).

|                           |                             |
|---------------------------|-----------------------------|
| <b>Grade :</b>            | N16K11M3T2 ( H16K11M3T2 )   |
| <b>Classification :</b>   | High-alloy structural steel |
| <b>Equivalent grades:</b> | Is absent                   |

## Chemical composition in % for grade N16K11M3T2 ( H16K11M3T2 )

| Ni      | Mo    | Co      | Ti        |
|---------|-------|---------|-----------|
| 16 - 16 | 3 - 3 | 11 - 11 | 1.6 - 1.6 |

Comment: shows the average concentration of alloying elements

## Mechanical properties under T=20°C for grade N16K11M3T2 ( H16K11M3T2 )

| Assortment | Dimension | Direct. | $\sigma_B$ | $\sigma_T$ | $\delta_5$ | $\psi$ | KCU                 | Heat treatment |
|------------|-----------|---------|------------|------------|------------|--------|---------------------|----------------|
| -          | mm        | -       | MPa        | MPa        | %          | %      | kJ / m <sup>2</sup> | -              |
|            |           |         | 2136       | 2070       | 11         | 64     |                     | Ageing         |

## Specification :

### Mechanical properties :

- $\sigma_B$  - Tensile strength , [MPa]
- $\sigma_T$  - Yield stress , [MPa]
- $\delta_5$  - Specific elongation at fracture , [ % ]
- $\psi$  - Reduction of area , [ % ]
- KCU** - Impact strength , [ kJ / m<sup>2</sup>]
- 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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