

# Database of Steel and Alloy (Marochnik)

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## Characteristics for grade 03KHN28MDT ( 03XH28MDT ).

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| <b>Grade :</b>            | 03KHN28MDT ( 03XH28MDT ) ( 000X23H28M3Д3Т ЭП516 ) |
| <b>Classification :</b>   | Corrosion-resistant alloy                         |
| <b>Equivalent grades:</b> | <a href="#">Go here</a>                           |

## Chemical composition in % for grade 03KHN28MDT ( 03XH28MDT )

| Fe            | C        | Si      | Mn      | Ni      | S        | P         | Cr      | Mo      | Ti        | Cu        |
|---------------|----------|---------|---------|---------|----------|-----------|---------|---------|-----------|-----------|
| 36.915 - 46.5 | max 0.03 | max 0.8 | max 0.8 | 26 - 29 | max 0.02 | max 0.035 | 22 - 25 | 2.5 - 3 | 0.5 - 0.9 | 2.5 - 3.5 |

## Mechanical properties under T=20°C for grade 03KHN28MDT ( 03XH28MDT )

| Assortment                | Dimension | Direct. | $\sigma_B$ | $\sigma_T$ | $\delta_5$ | $\psi$ | KCU                 | Heat treatment                          |
|---------------------------|-----------|---------|------------|------------|------------|--------|---------------------|-----------------------------------------|
| -                         | mm        | -       | MPa        | MPa        | %          | %      | kJ / m <sup>2</sup> | -                                       |
| Sheet trick, GOST 7350-77 |           |         | 540        | 215        | 35         |        |                     | Guenching 1040 - 1080°C, Cooling water, |

## Equivalent steels for grade 03KHN28MDT ( 03XH28MDT )

Warning! Indicated both exact and nearest equivalents.

|                  |
|------------------|
| Germany          |
| DIN, WNr         |
| X3NiCrCuMoTi2730 |

## 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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