

# Database of Steel and Alloy (Marochnik)

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## Characteristics for grade 05KH12N6D2MFSGT ( 05X12H6Д2МФСТ ).

|                           |                                            |
|---------------------------|--------------------------------------------|
| <b>Grade :</b>            | 05KH12N6D2MFSGT ( 05X12H6Д2МФСТ ) ( ДИ80 ) |
| <b>Classification :</b>   | Alloy tool steel                           |
| <b>Equivalent grades:</b> | Is absent                                  |

## Chemical composition in % for grade 05KH12N6D2MFSGT ( 05X12H6Д2МФСТ )

| C           | Si        | Mn        | Ni        | S        | P        | Cr          | Mo        | V         | Ti        | Cu        | Zr       | Ca       | Mg       |
|-------------|-----------|-----------|-----------|----------|----------|-------------|-----------|-----------|-----------|-----------|----------|----------|----------|
| 0.01 - 0.08 | 0.6 - 1.2 | 0.2 - 1.2 | 5.5 - 6.5 | max 0.03 | max 0.03 | 11.5 - 13.5 | 0.2 - 0.4 | 0.2 - 0.5 | 0.4 - 0.8 | 1.4 - 2.2 | max 0.15 | max 0.03 | max 0.03 |

|                                                                                                 |                                      |
|-------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>Brinell hardness for 05KH12N6D2MFSGT ( 05X12H6Д2МФСТ ) (heat treatment) , GOST 5950-2000</b> | <b>HB 10 <sup>-1</sup> = 293 MPa</b> |
|-------------------------------------------------------------------------------------------------|--------------------------------------|

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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