

# 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](#) -> [Aluminium alloy](#)

## Characteristics for grade D16P ( Д16П ).

|                    |                          |
|--------------------|--------------------------|
| Grade :            | D16P ( Д16П ) ( 1167 )   |
| Classification :   | Aluminium wrought alloys |
| Equivalent grades: | <a href="#">Go here</a>  |

## Chemical composition in % for grade D16P ( Д16П )

| Fe      | Si      | Mn        | Ti      | Al          | Cu        | Mg        | Zn      | Impurity                  |
|---------|---------|-----------|---------|-------------|-----------|-----------|---------|---------------------------|
| max 0.5 | max 0.5 | 0.3 - 0.7 | max 0.1 | 91.9 - 94.7 | 3.8 - 4.5 | 1.2 - 1.6 | max 0.1 | other, each 0.05; all 0.1 |

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

## Physical properties for grade D16P ( Д16П )

| T     | E 10 <sup>-5</sup> | $\alpha$ 10 <sup>6</sup> | $\lambda$      | $\rho$            | C            | R 10 <sup>9</sup> |
|-------|--------------------|--------------------------|----------------|-------------------|--------------|-------------------|
| Grade | MPa                | 1/Grade                  | Watt/(m·Grade) | kg/m <sup>3</sup> | J/(kg·Grade) | Ohm·m             |
| 20    |                    |                          |                | 2540              |              |                   |

## Equivalent steels for grade D16P ( Д16П )

Warning! Indicated both exact and nearest equivalents.

| Germany   | France | Czechia |
|-----------|--------|---------|
| DIN, WNr  | AFNOR  | CSN     |
| AlCuMg2pl | 2024-F | 424253  |

## Specification :

### Physical properties :

- T** - Test temperature , [Grade]
- E** - Young modulus , [MPa]
- $\alpha$  - Coefficient of linear expansion ( range 20° - T ) , [1/Grade]
- $\lambda$  - Thermal (heat) condition coefficient , [Watt/(m·Grade)]
- $\rho$  - Density , [kg/m<sup>3</sup>]
- C** - Specific heat ( range 20° - T ) , [J/(kg·Grade)]
- R** - Electrical resistance , [Ohm·m]

Database of steels and alloys (Marochnik) contains information about chemical composition and properties more than 2500 steels and alloys (stainless steel, alloy steel, carbon 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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