

## RETAINING RINGS

**Material:** Spring steel

**Hardness:**

**SURFACE FINISHES**  
**Phosphated and oiled**  
**Blackened and oiled**  
 Manufacturer's choice

**Example of designation:**  
 ring type **JM 20 IMPILATI**



DIN 472  
 UNI 3654-7437  
 Type **JM** - for  
 bores-stacked



**d<sub>1</sub>**=bore diameter  
**d<sub>2</sub>**=groove diameter  
**d<sub>3</sub>**=ring diameter in the unstressed state  
**s**=thickness

| d1    | Description    | Price<br>euro /100 | % Price Change | Package |
|-------|----------------|--------------------|----------------|---------|
| 13.00 | JM 13 impilati | 2,00               | -              | -       |

| RING                |             | GROOVE              |      | SUPPLEMENTARY DATA    |         |
|---------------------|-------------|---------------------|------|-----------------------|---------|
| d <sub>1</sub>      | 13.00       | d <sub>2</sub>      | 13.6 | n                     | 0.9     |
| s                   | 1.00        | tole d <sub>2</sub> | 0.11 | FN (kN)               | 2.10    |
| tole s              | -0.06       | m                   | 1.10 | FR (kN)               | 4.2     |
| d <sub>3</sub>      | 14.1        | t                   | 0.30 | g                     | 0.5     |
| tole d <sub>3</sub> | +0.36 -0.10 |                     |      | FRg (kN)              | 2.3     |
| a max               | 3.6         |                     |      | AN (mm <sup>2</sup> ) | 12.5    |
| b ~                 | 1.8         |                     |      | K (kN.mm)             | 20.3    |
| d <sub>5</sub> min  | 1.5         |                     |      | plier                 | ZGJ 0-1 |
| weight kg/1000      | 0.420       |                     |      |                       |         |

Technical informations are indicative and can be updated.

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