

## RETAINING RINGS

**Material:** Spring steel

**Hardness:**

d<sub>1</sub>= 16÷48mm: 470÷580 HV 47÷54 HRC

**Hardness:**

d<sub>1</sub>= 50÷100mm: 435÷530 HV 44÷51 HRC

**SURFACE FINISHES**

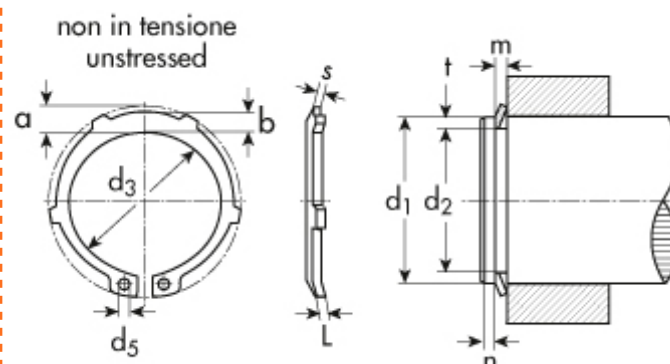
**Phosphated and oiled**

**Blackened and oiled**

Manufacturer's choice

**Example of designation:**

ring type **AL 30**



type **AL** for shafts



d<sub>1</sub>=shaft 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 |
|-------|-------------|--------------------|----------------|---|---------|
|       |             |                    | 1              | 2 |         |
| 16.00 | AL 16       | 14,00              | -              | - | 1000    |

| RING                |             | GROOVE              |       | SUPPLEMENTARY DATA |        |
|---------------------|-------------|---------------------|-------|--------------------|--------|
| d <sub>1</sub>      | 16.00       | d <sub>2</sub>      | 15.2  | n                  | 1.2    |
| s                   | 0.60        | tole d <sub>2</sub> | -0.11 | FN (kN)            | 3.26   |
| d <sub>3</sub>      | 14.7        | m                   | 0.70  | FR (kN)            | 2.20   |
| tole d <sub>3</sub> | +0.10 -0.36 |                     |       | g                  | 1.0    |
| a max               | 3.5         |                     |       | FRg (kN)           | 0.70   |
| b ~                 | 2.3         |                     |       | FL max (kN)        | 0.13   |
| d <sub>5</sub> min  | 1.7         |                     |       | L min              | 0.35   |
| weight kg/1000      | 0.820       |                     |       | u                  | 0.05   |
|                     |             |                     |       | C (kN/mm)          | 0.4300 |
|                     |             |                     |       | plier              | ZGA 1  |

Technical informations are indicative and can be updated.

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