

## RETAINING RINGS

**Material:** Spring steel

**Hardness:**  
45÷50 HRC 450÷520 HV

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

**Example of designation:**  
ring type **SP 30**

**Outer edges sharp or rounded, to manufacturer's choice**



DIN 5417  
circlips for  
bearing type  
**SP** - for shafts



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

| d1     | Description | Price<br>euro /100 | % Price Change |   | Package |
|--------|-------------|--------------------|----------------|---|---------|
|        |             |                    | 1              | 2 |         |
| 130.00 | SP 130      | 350,00             | -              | - | 50      |

| RING           |        | GROOVE                     |        | SUPPLEMENTARY DATA                 |       |
|----------------|--------|----------------------------|--------|------------------------------------|-------|
| d1             | 130.00 | d2                         | 125.22 | FN (kN)                            | 166.0 |
| s              | 2.82   | tole d2                    | -0.50  | FR (kN)                            | 121.0 |
| tole s         | -0.1   | m                          | 3.10   | g                                  | 4.0   |
| d3             | 123.6  | Delta tole di m (solo x S) | 0.3    | FRg (kN)                           | 16.70 |
| tole d3        | 1.0    |                            |        | K (kN.mm)                          | 270.0 |
| e              | 7      |                            |        | n <sub>abl</sub> .x1000 (giri/min) | 1.000 |
| r              | 0.7    |                            |        |                                    |       |
| b ~            | 7.21   |                            |        |                                    |       |
| tole b         | -0.15  |                            |        |                                    |       |
| d4             | 139.7  |                            |        |                                    |       |
| weight kg/1000 | 65.600 |                            |        |                                    |       |

Technical informations are indicative and can be updated.

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