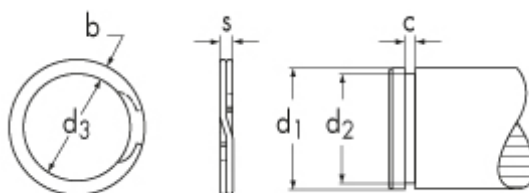


# SMALLEY® SPIRAL RETAINING RINGS

SAE 1070-90  
Carbon Steel

surface treatment:  
Oil dipped

Example of designation: DNS-13



d1=shaft diameter  
d2=groove diameter  
d3=internal ring diameter  
S=thickness

Medium-heavy  
duty series  
**DNS - for shafts  
for groove DIN  
471**



| description   | Price<br>Euro x100 | % Price Change |   | Package |
|---------------|--------------------|----------------|---|---------|
|               |                    | 1              | 2 |         |
| <b>DNS-20</b> | <b>57,00</b>       | + 20%          | - | 1000    |

| DESCRIPTION                         | GROOVE    | THRUST CAPACITY                                                                                                         |
|-------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------|
| DNS-20                              | d2        | ring shear      Newtons 20.742<br>(safety factor =3)                                                                    |
| d1 mm      20.00                    | mm 19.00  |                                                                                                                         |
|                                     | Toll. d2  | groove yield      Newtons 4.874<br>(based on a groove material yield<br>strength of 310/mm and a safety factor<br>of 2) |
|                                     | mm -0,130 |                                                                                                                         |
|                                     | c         |                                                                                                                         |
|                                     | mm 1.30   |                                                                                                                         |
|                                     | Toll. c   |                                                                                                                         |
|                                     | mm +0,140 |                                                                                                                         |
| <b>RING IN THE UNSTRESSED STATE</b> |           |                                                                                                                         |
| d3                                  |           |                                                                                                                         |
| mm 18.82                            |           |                                                                                                                         |
| Toll. d3                            |           |                                                                                                                         |
| mm -0,33                            |           |                                                                                                                         |
| b                                   |           |                                                                                                                         |
| mm 1.91                             |           |                                                                                                                         |
| Toll. b                             |           |                                                                                                                         |
| mm +/-0,10                          |           |                                                                                                                         |
| s                                   |           |                                                                                                                         |
| mm 1.14                             |           |                                                                                                                         |
| Toll. s                             |           |                                                                                                                         |
| mm +/-0,05                          |           |                                                                                                                         |
| Weight Kg/1000                      |           |                                                                                                                         |
| 1.11                                |           |                                                                                                                         |

Technical informations are indicative and can be updated.

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