

**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 |
|---------------|--------------------|----------------|--------|---------|
| <b>DNS-30</b> | <b>66,00</b>       | 1<br>+ 20%     | 2<br>- | 500     |

| DESCRIPTION                         | GROOVE          | THRUST CAPACITY                                                                                                            |
|-------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------|
| DNS-30                              | <b>d2</b>       | <b>ring shear</b> Newtons 39.301<br>(safety factor =3)                                                                     |
| <b>d1 mm</b> 30.00                  | mm 28.60        |                                                                                                                            |
|                                     | <b>Toll. d2</b> | <b>groove yield</b> Newtons 10.235<br>(based on a groove material yield<br>strength of 310/mm and a safety factor<br>of 2) |
|                                     | mm -0,210       |                                                                                                                            |
|                                     | <b>c</b>        |                                                                                                                            |
|                                     | mm 1.60         |                                                                                                                            |
|                                     | <b>Toll. c</b>  |                                                                                                                            |
|                                     | mm +0,140       |                                                                                                                            |
| <b>RING IN THE UNSTRESSED STATE</b> |                 |                                                                                                                            |
| <b>d3</b>                           |                 |                                                                                                                            |
| mm 28.32                            |                 |                                                                                                                            |
| <b>Toll. d3</b>                     |                 |                                                                                                                            |
| mm -0,38                            |                 |                                                                                                                            |
| <b>b</b>                            |                 |                                                                                                                            |
| mm 2.39                             |                 |                                                                                                                            |
| <b>Toll. b</b>                      |                 |                                                                                                                            |
| mm +/-0,10                          |                 |                                                                                                                            |
| <b>s</b>                            |                 |                                                                                                                            |
| mm 1.44                             |                 |                                                                                                                            |
| <b>Toll. s</b>                      |                 |                                                                                                                            |
| mm +/-0,05                          |                 |                                                                                                                            |
| <b>Weight Kg/1000</b>               |                 |                                                                                                                            |
| 2.60                                |                 |                                                                                                                            |

Technical informations are indicative and can be updated.

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**GANDINI FASTENERS SRL** viale Pier Paolo Pasolini, 83 - 20099 Sesto S.Giovanni Milano Italy  
Tel. +39 02 241 047 250 Fax +39 02 241 047 74

Production and distribution  
of fasteners, fixing elements  
and mechanical parts  
machining

**GANDINI FASTENERS SRL**  
viale Pier Paolo Pasolini, 83  
Sesto San Giovanni Mi - Italy

**Sales department**  
250@gandini.it  
tel +39 02 241 047 250

**Administration**  
350@gandini.it  
tel +39 02 241 047 350