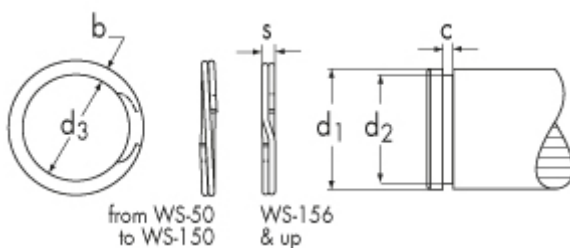


## SMALLEY® SPIRAL RETAINING RINGS

SAE 1060-75 Carbon Steel

surface treatment:  
Oil dipped

Example of designation: WS-50



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

Medium duty  
series  
**WS - for shafts**  
(in inches)



| description   | Price<br>Euro x100 | % Price Change | Package |
|---------------|--------------------|----------------|---------|
| <b>WS-196</b> | <b>57,00</b>       | + 20%          | 100     |

| DESCRIPTION                                   | GROOVE                                | THRUST CAPACITY                                                                |
|-----------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------|
| WS-196                                        | d2 inch. 1.902<br>mm 48.31            | ring shear Newtons 56.623<br>L.B.S. 12,730                                     |
| d1 mm 50.01                                   | Toll. d2 inch. +/-0,005<br>mm +/-0,13 | (safety factor =3)                                                             |
| d1 inch 1.969                                 | c inch. 0.056<br>mm 1.42              | groove yield Newtons 21.039<br>L.B.S. 4,730                                    |
| <b>RING IN THE UNSTRESSED STATE</b>           |                                       | (based on a groove material yield strength of 310/mm and a safety factor of 2) |
| d3 inch. 1.882<br>mm 47.80                    | Toll. c inch. +0,004<br>mm +0,100     |                                                                                |
| Toll. d3 inch. -0,02<br>mm -0,51              |                                       |                                                                                |
| b inch. 0.128<br>mm 3.25                      |                                       |                                                                                |
| Toll. b inch. +0,003/-0,005<br>mm +0,08/-0,13 |                                       |                                                                                |
| s inch. 0.049<br>mm 1.24                      |                                       |                                                                                |
| Toll. s inch. +/-0,003<br>mm +/-0,08          |                                       |                                                                                |
| Weight Kg/1000 4.81                           |                                       |                                                                                |

Technical informations are indicative and can be updated.

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