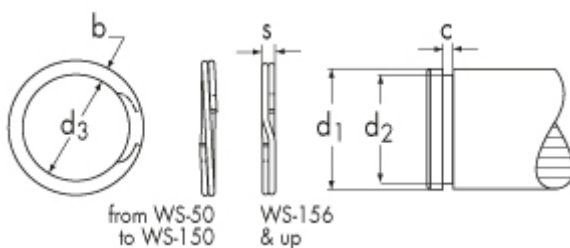


## SMALLEY® SPIRAL RETAINING RINGS

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-53</b> | <b>22,00</b>       | 1<br>+ 20%     | 2<br>-  |

| DESCRIPTION                                      | GROOVE                                   | THRUST CAPACITY                                                                                                               |
|--------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| WS-53                                            | d2<br>inch. 0.505<br>mm 12.83            | ring shear<br>Newtons 9.474<br>L.B.S. 2,130<br>(safety factor =3)                                                             |
| d1 mm 13.49                                      | Toll. d2<br>inch. +/-0,002<br>mm +/-0,05 | groove yield<br>Newtons 2.180<br>L.B.S. 490<br>(based on a groove material yield strength of 310/mm and a safety factor of 2) |
| d1 inch 0.531                                    | c<br>inch. 0.030<br>mm 0.76              |                                                                                                                               |
| <b>RING IN THE UNSTRESSED STATE</b>              | Toll. c<br>inch. +0,003<br>mm +0,080     |                                                                                                                               |
| d3<br>inch. 0.498<br>mm 12.65                    |                                          |                                                                                                                               |
| Toll. d3<br>inch. -0,013<br>mm -0,33             |                                          |                                                                                                                               |
| b<br>inch. 0.045<br>mm 1.14                      |                                          |                                                                                                                               |
| Toll. b<br>inch. +0,003/-0,005<br>mm +0,08/-0,13 |                                          |                                                                                                                               |
| s<br>inch. 0.025<br>mm 0.64                      |                                          |                                                                                                                               |
| Toll. s<br>inch. +/-0,002<br>mm +/-0,05          |                                          |                                                                                                                               |
| Weight Kg/1000 0.18                              |                                          |                                                                                                                               |

Technical informations are indicative and can be updated.

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