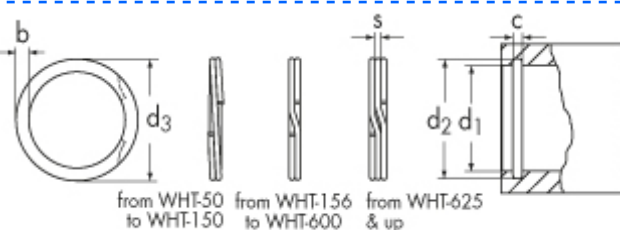


**SMALLEY® SPIRAL RETAINING RINGS**
**SAE 1070-90 Carbon Steel**

surface treatment:  
**Oil dipped**
**Example of designation: WHT-50**


**d1**=shaft diameter  
**d2**=groove diameter  
**d3**=external ring diameter  
**S**=thickness

Medium-heavy  
duty series  
**WHT - for bores**  
(in inches)


| description    | Price<br>Euro x100 | % Price Change |   | Package |
|----------------|--------------------|----------------|---|---------|
|                |                    | 1              | 2 |         |
| <b>WHT-193</b> | <b>56,00</b>       | + 20%          | - | 100     |

| DESCRIPTION                                 | GROOVE                                       | THRUST CAPACITY                                                                |
|---------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------|
| WHT-193                                     |                                              |                                                                                |
| <b>d1 mm</b> 49.23                          | <b>d2</b> inch. 2.040<br>mm 51.82            | <b>ring shear</b> Newtons 70.501<br>L.B.S. 15,850                              |
| <b>d1 inch</b> 1.938                        | <b>Toll. d2</b> inch. +/-0,005<br>mm +/-0,13 | (safety factor =3)                                                             |
|                                             | <b>c</b> inch. 0.068<br>mm 1.73              | <b>groove yield</b> Newtons 31.092<br>L.B.S. 6,990                             |
|                                             | <b>Toll. c</b> inch. +0,004<br>mm +0,100     | (based on a groove material yield strength of 310/mm and a safety factor of 2) |
| RING IN THE UNSTRESSED STATE                |                                              |                                                                                |
| <b>d3</b> inch. 2.054<br>mm 52.17           |                                              |                                                                                |
| <b>Toll. d3</b> inch. +0,020<br>mm +0,51    |                                              |                                                                                |
| <b>b</b> inch. 0.128<br>mm 3.25             |                                              |                                                                                |
| <b>Toll. b</b> inch. +/-0,004<br>mm +/-0,1  |                                              |                                                                                |
| <b>s</b> inch. 0.062<br>mm 1.57             |                                              |                                                                                |
| <b>Toll. s</b> inch. +/-0,003<br>mm +/-0,08 |                                              |                                                                                |
| <b>Weight Kg/1000</b> 5.93                  |                                              |                                                                                |

Technical informations are indicative and can be updated.

Copyright Gandini Fasteners S.r.l. All rights reserved. No part of this web site may be reproduced in any form without express permission.

**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