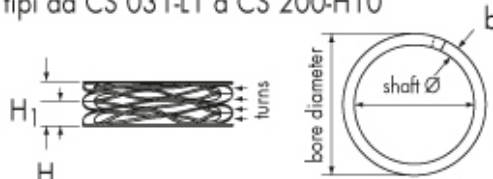


**SMALLEY® WAVE SPRINGS**
**SAE 1070-90 Carbon Steel**

surface finishes  
Oil dipped

**Example of designation: CS031-L1**
**CS = Shim ends**  
tipi da CS 031-L1 a CS 200-H10

**d1**=bore diameter  
**d4**=shaft diameter  
**S**=thickness  
**H**=free height  
**H1**=work height

**CS - inch series**  
squared - plain ends


| description     | Price<br>Euro x100 | % Price Change |   | Package |
|-----------------|--------------------|----------------|---|---------|
|                 |                    | 1              | 2 |         |
| <b>CS031-L3</b> | <b>55,00</b>       | + 20%          | - | 500     |

| <b>WAVE</b>                    |                                |                                           |                        |
|--------------------------------|--------------------------------|-------------------------------------------|------------------------|
| <b>description</b><br>CS031-L3 |                                | <b>s</b>                                  | inch. 0.008<br>mm 0.20 |
| <b>d1 - bore diameter</b>      | inch. 0.312<br>mm 7.92         | <b>b</b>                                  | inch. 0.032<br>mm 0.81 |
| <b>d4 - shaft diameter</b>     | inch. 0.200<br>mm 5.08         | <b>spring rate</b><br>(Theoretical value) | Lb/inch 42<br>N/mm 7   |
| <b>Load</b>                    | Lb in H1 3.00<br>N in H1 13.30 |                                           |                        |
| <b>H1 work height</b>          | inch. 0.118<br>mm 3.00         |                                           |                        |
| <b>H free height</b>           | inch. 0.190<br>mm 4.83         |                                           |                        |
| <b>turns nr</b>                | 5                              |                                           |                        |
| <b>wave nr</b>                 | 2.5                            |                                           |                        |
| <b>Weight Kg/1000</b>          | 0.16                           |                                           |                        |

Technical informations are indicative and can be updated.

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machining

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