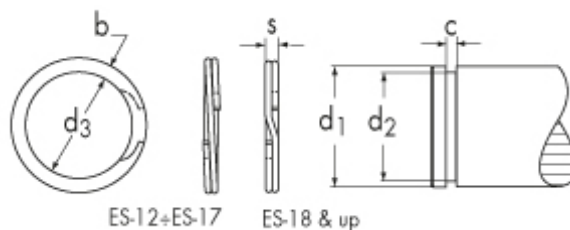


SMALLEY® SPIRAL RETAINING RINGS

SAE 1070-90
Carbon Steel

surface treatment:
Oil dipped

Example of designation: ES-6



ES-12+ES-17 ES-18 & up

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

Medium duty
series
ES - for shafts



description	Price Euro x100	% Price Change		Package
		1	2	
ES-9	17,50	+ 20%	-	1000

DESCRIPTION	GROOVE	THRUST CAPACITY
ES-9	d2	ring shear Newtons 4.740 (safety factor =3)
d1 mm 9.00	mm 8.48	
	Toll. d2	groove yield Newtons 1.140 (based on a groove material yield strength of 310/mm and a safety factor of 2)
	mm +/-0,05	
RING IN THE UNSTRESSED STATE	c	
d3	mm 0.74	
mm 8.41	Toll. c	
Toll. d3	mm +0,080	
mm -0,25		
b		
mm 0.76		
Toll. b		
mm +.08/-0,13		
s		
mm 0.64		
Toll. s		
mm +/-0,05		

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