

# Technical data sheet

<b>Title</b>	Washer for socket head screws.
<b>Standard</b>	DIN7349

## 1.- Functions of washers.

The main functions of washers are:

- 1.- To protect contact surfaces against scratches or wear that may be caused by screws or nuts by rubbing.
- 2.- To distribute the tightening force evenly to obtain local pressures that are close to the average pressure.
- 3.- To move the tightening force to different areas of the head of the screw or nut. Oversized or torn holes.
- 4.- To reduce the risks of loosening due to increase in the friction coefficient on the screw or nut (serrated or ribbed washers)
- 5.- To secure a possible loss of tightening torque due to deformation of the parts (elastic washers)
- 6.- To compensate for the lack of parallelism of the parts or uneven surfaces.
- 7.- Watertightness between the head or screw or nut and the part to be tightened (polyamide coated washer).
- 8.- Fastening of cables to the electrical connections.

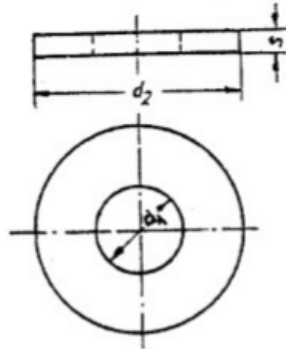
## 2- Application and classes of washers

DIN7349 washers are used for socket head screws, usually with sockets according to the DIN1481 standard.

The material used to manufacture them will be at the manufacturer's discretion.

The steel washers have a hardness of 200HV, and their surface finishes are: Plain and Zinc plated.

### 3.- Dimensions of washers



METRIC	d1	d2	h
3	3.2	9	1
4	4.3	12	1.6
5	5.3	15	2
6	6.4	17	3
8	8.4	21	4
10	10.5	25	4
12	13	30	6
14	15	36	6
16	17	40	6
18	19	44	8
20	21	44	8
22	23	50	8
24	25	50	10
27	28	60	10
30	31	68	10