

Technical data sheet

Title	Conical washer
Standard	DIN6796

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.

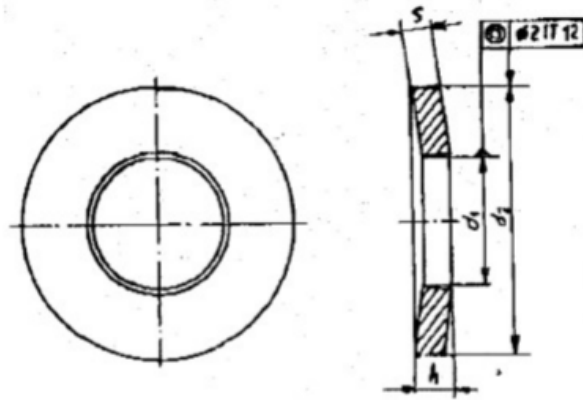
2- Application and classes of washers

DIN6796 washers are designed for joining screws of classes 8.8 to 10.9. Through their design they are intended to prevent loosening of the joints made with screws.

They are recommended for use with short screws, especially those subject to axial forces; since they do not provide effective safety in the face of loosening caused by intermittent transverse loads.

These washers are made from spring steel and have a hardness of 420HV to 510HV.

3.- Dimensions of washers



METRIC	d1	d2	s	max. h
M2	2.2	5	0.4	0.6
M2.5	2.7	6	0.5	0.72
M3	3.2	7	0.6	0.85
M3.5	3.7	8	0.8	1.06
M4	4.3	9	1	1.3
M5	5.3	11	1.2	1.55
M6	6.4	14	1.5	2
M7	7.4	17	1.75	2.3
M8	8.4	18	2	2.6
M10	10.5	25	2.5	3.2
M12	13	29	3	3.95
M14	15	35	3.5	4.65
M16	17	39	4	5.25
M18	19	42	4.5	5.8
M20	21	45	5	6.4
M22	23	49	5.5	7.05
M24	25	56	6	7.75
M27	28	60	6.5	8.35
M30	31	70	7	9.2