

Flat Metal Gasket**GA9600 Flat metal gasket**

Uni-seals supply flat metal gaskets with or without soft layers.

GA9610 Solid flat metal gasket

The gaskets offer extremely tight sealing, high mechanical strength, and good resistance to temperature, corrosion and pressure. Bolting stress and flange surface finish are key to the performance of this design.

Normal materials: aluminum, copper, brass, soft iron, SS304, SS316, etc. The hardness of gasket material must be less than the hardness of the flanges to prevent damage to the flange.

Applications:

The gaskets are best suited for application such as valve bonnets, ammonia fittings, heat exchangers, hydraulic presses, tongue-and-groove joints. It can be used when compressibility is not required to compensate for flange surface finish, warpage or misalignment and where sufficient clamping force is available to seat the gasket.

GA9620 Flat metal gasket with soft layers

The gaskets consist of a flat metal core which is supplied with soft layers on both sides. The solid metal core provides high strength and rigidity, while the soft layers ensure excellent sealing performance. The soft layer material can flow easily into the flange faces allowing a high integrity seal, even under low applied seating stresses.

Normal metal core material: carbon steel, SS304, SS316, etc., normally in thickness of 3mm.

Normal soft layer material: graphite (0.5mm), PTFE (0.4mm).

Other materials and thickness are also available on request.

Applications:

GA9620 gaskets are typically used for large diameter gaskets, as well as heat exchanger duties where seating space is limited, normally in non-standard situations.

Metallic Materials:

Metal material	Density	Maximum hardness	Maximum Temperature
Aluminum	2.7g/cm ³	35 HB	425°C
Brass	8.5g/cm ³	60 HB	260°C
Copper	8.8g/cm ³	80 HB	400°C
Soft Iron	7.85g/cm ³	90 HB	500°C
SS304	7.9g/cm ³	160 HB	550°C
SS316	7.9g/cm ³	160 HB	800°C