

Compressed Non-asbestos Fiber Sheets are sheet type gasket materials, where a special rubber binder and a small amount of filler material are mixed with organic and inorganic fibers, and rolled and vulcanized.

**Compressed Non-asbestos Fiber Sheet for general use****VALQUA No. 6500**

Features	These products are suitable for use as general-purpose Gaskets for pipe flanges in general utility lines, such as water and oil and equipment in various industries. The adaptability of these sheets to water apparatus according to JIS S 3200-7 has been confirmed.
Unsuitable fluids	Strong oxidizing acid, strong alkali, various solvents, inflammable gas, gas susceptible to burning, toxic gas, etc.
Applications	Joint areas of steam lines, pipe flanges, valve bonnets and other equipment used in oil refineries and chemical industries
Main component	NBR, aramid fiber, mineral wool, inorganic fillers
Color / Print	Blue / Black

**Anti-corrosion Compressed Non-asbestos Fiber Sheet****VALQUA No. 6500AC**

Features	With reduced amounts of leachable chloride, these Compressed Fiber Sheets have corrosion suppression effect when stainless steel flanges are used for water or water solutions. Surface finishing reduces sticking to the flange.
Unsuitable fluids	Strong acid, strong alkali, various solvents, inflammable gas, gas susceptible to burn and toxic gas
Applications	Stainless steel pipe flanges, valve bonnets and joints of various equipment that require corrosion resistance in various industries
Main component	NBR, aramid fiber, mineral wool, inorganic fillers
Color / Print	Blue / Orange

**BLACKSUPER****VALQUA No. 6502**

Features	Excellent heat resistance when compared with 6500. It may be used for a wide variety of purposes.
Unsuitable fluids	Strong acid, strong alkali, various solvents, inflammable gas, gas susceptible to burn and toxic gas NBR, aramid fiber, carbon fiber, mineral wool, inorganic fillers
Applications	Joint areas of steam lines, pipe flanges, valve bonnets and other equipment used in oil refineries and chemical industries
Main component	NBR, aramid fiber, carbon fiber, mineral wool, inorganic fillers
Color / Print	Gray / Black

## White Compressed Non-asbestos Fiber Sheet



### VALQUA No. 6503

Features	Since black components are removed in the Compressed Fiber Sheet, these gaskets are suitable to be used for applications where inclusion of black foreign substances into the fluid should be avoided.
Unsuitable fluids	Strong acid, strong alkali, various solvents, inflammable gas, gas susceptible to burn and toxic gas
Applications	Applications should be avoided in which black foreign substances are included into process fluids, such as in petrochemical industry
Main component	NBR, aramid fiber, mineral wool, inorganic fillers
Color / Print	White / Green

## Anti-corrosion white Compressed Non-asbestos Fiber Sheet



### VALQUA No. 6503AC

Features	With reduced amount of leachable chloride, these white Compressed Fiber Sheets have corrosion suppression effect on stainless steel flanges. Surface finishing reduces sticking to the flange.
Unsuitable fluids	Strong acid, strong alkali, various solvents, inflammable gas, gas susceptible to burn and toxic gas
Applications	Pipe flanges, valve bonnets and other equipment used in various industries requiring corrosion resistance for white applications
Main component	NBR, aramid fiber, mineral wool, inorganic fillers
Color / Print	White / Orange

## Design data

### Allowable ranges

VALQUA No.	Temperature (°C) <sup>(1)</sup>	Pressure (MPa)		
		Water based	Oil based <sup>(2)</sup>	Gas
6500/6500AC	—50~183	3.0	3.0	1.0
6502/6503/6503AC	—50~214	3.0	3.0	1.0

Notes (1) For service conditions exceeding 100°C, please refer to the precautions listed on page 12.

(2) Regarding oil gas, solvent and corrosive fluid, separate consultation is required.

Remark Temperature and pressure classifications show individual service limits.

### Design Criteria

The values defined in Appendix G to JIS B 8265 can be applied to the m and y values of the Compressed Non-asbestos Fiber Sheet.

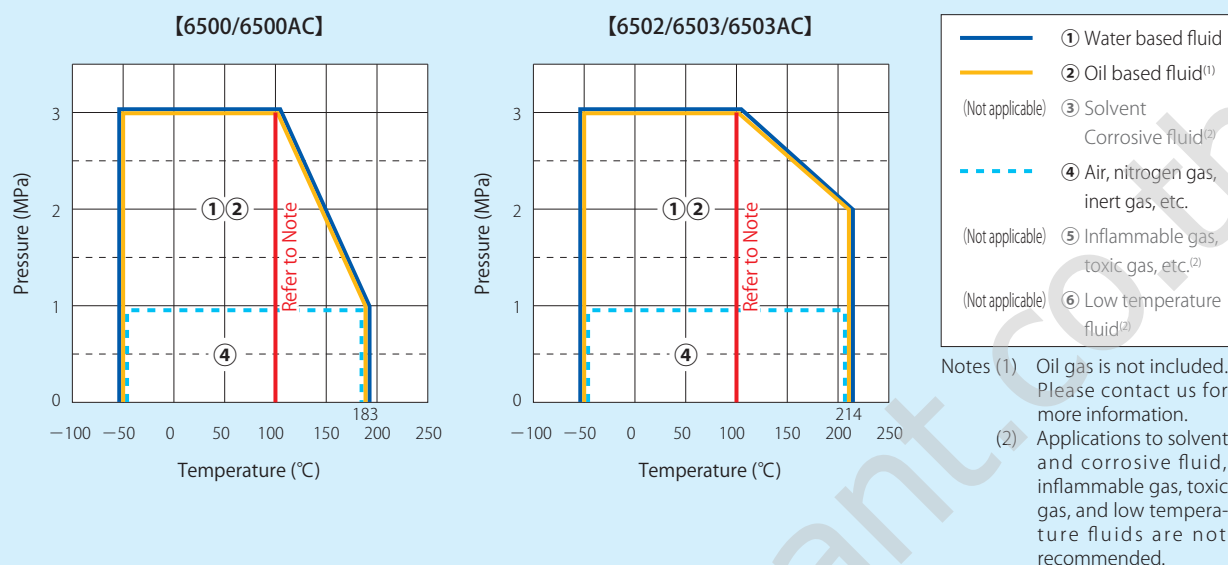
VALQUA No.	Thickness (mm)	Gasket factor "m"	Minimum design seating stress "y" (N/mm <sup>2</sup> )	Recommended tightening stress (MPa) <sup>(1)</sup>	
				Liquid	Gas
6500/6500AC	3.0	2.00	11.0	25.5	40.0
6502	1.5	2.75	25.5		
6503/6503AC	1.0	3.50	44.8		

Note (1) The recommended tightening stress is the pressure required under standard conditions without consideration to the endforce due to internal fluid. It is the stress on the contact area of the gasket.

### Dimensions

VALQUA No.	Thickness (mm)	Size (mm)	
6500/6502/6503	0.4 (6500 only) 0.5, 0.8, 1.0 1.5, 2.0, 3.0	1270×1270	
		1270×3810	
		2540×3810	
		3048×3810	
6500AC/6503AC		1270×1270	
		1270×3810	
		2540×3810	

### Allowable ranges per fluid



#### ▼ Note

If No. 6500, No. 6500AC, No. 6502, No. 6503 or No. 6503AC are used at a temperature of 100°C or above, there is a possibility that the gasket could harden and crack; therefore, please follow the precautions listed below when using the product.

- ① Gasket thickness should be 1.5 mm or less.
- ② Gasket paste (SEALPASTE etc.) should be used.
- ③ Tightening stress should be 30 MPa or higher.
- ④ These gaskets should be used in places unlikely to bear piping load, or in places that may be easily replaced.
- ⑤ Whenever possible, use ring gaskets. Full face gaskets have more surface area, requiring additional compressive load on the gasket.

### Stress strain Characteristics of Compressed Non-asbestos Fiber Sheet (Dimension of test piece: JIS 10K 25A t=1.5mm)

