

***Tech-How Make the Difference!***



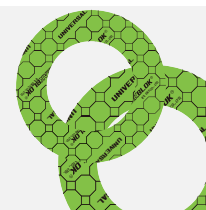
**Next Generation  
World Firstly Developed  
Eco-Friendly  
Flange Gasket Materials**



Environmentally Friendly Solvent Free Process  
**LEAKBLOK®**



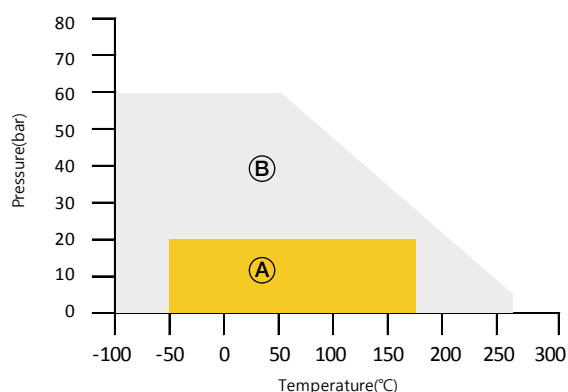
# Compressed Asbestos-Free Gasket **LEAKBLOK® Premium P100**



## MATERIAL PROPERTIES

Product Name	LEAKBLOK® Premium P100
Color	Green(Black Printed)
Composition	Aramid Fiber + NBR Binder
Fluids Service	Portable Water, Oils, Fuels, Salt Solution, Mild acids and alkalis, gas line
Pressure	Short-term peak 60bar(870 psi)
Temperature	Continuous -50℃(-58°F) ~ 180℃(356°F) Short-term peak Max 260℃(500°F)
pH range	4-11
Thickness(mm)	0.8 ~ 3.2
Size(mm)	1270(W)×1270(L), 3M~10M, 15M~20M(L) 1500(W)×1500(L), 3M~10M, 15M~20M(L)
Certificates	Lloyd's & ABS Type Approval , TA-Luft(VDI 2440), WRAS, Fire Endurance Test(ISO 19921 & 19922)

## SERVICE RANGE



Area (A)	Satisfactory area subject to chemical compatibility
Area (B)	Usually suitable but required technical recommend by JEIL Technical team
P×T(Max)	psi × °F (bar×°C) / 309,720(10,800)

## PHYSICAL PROPERTIES

Test Method	Description	LEAKBLOK® P100
ASTM D792	Density (g/cm³)	1.9
ASTM F152	Tensile Strength Across grain. MPa (kgf/mm²)	10.0(1.02)
ASTM F36 Procedure J	Compressibility (%)	10
	Recovery (%)	75
DIN 3535 - 6	Gas permeability (ml/min)	≤ 0.01
DIN 52913	Relaxation Stress(MPa) -50MPa 16 hours @ 175℃	20
VDI 2440 (TA - Luft)	Leak rate ( mbar.l /(s.m) ) -at 150℃ 48 hours	2·10 <sup>-8</sup>

## IMMERSION PROPERTIES

Test Method	Description	LEAKBLOK® P100
ASTM F146		
at 150℃×5hrs		
ASTM Oil no 3	Thickness Increase (%)	4
at 20~30℃×5hrs		
ASTM Fuel B	Thickness Increase (%)	7
	Weight Increase (%)	10

GASKET DESIGN DATA		
Thickness (mm)	Gasket Factor(m)	Min. Design Seating Stress(y) Kgf/cm² (psi)
3.2	2.00	112(1600)
1.6	2.75	260(3700)
0.8	3.50	457(6500)

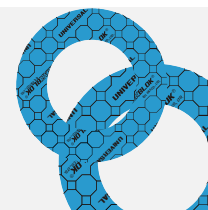
\* All data are 1.5mm thickness typical value.

Innovative technology, LEAKBLOK®, absolutely distinguished from the traditional way of calendar roll production, It specially invented with environmentally friendly solvent free process. Compare with previous product, it shows strong durability and superior at low seating stress. Suitable for use Low pressure steam and clean line, excellent protection of fluid contamination.

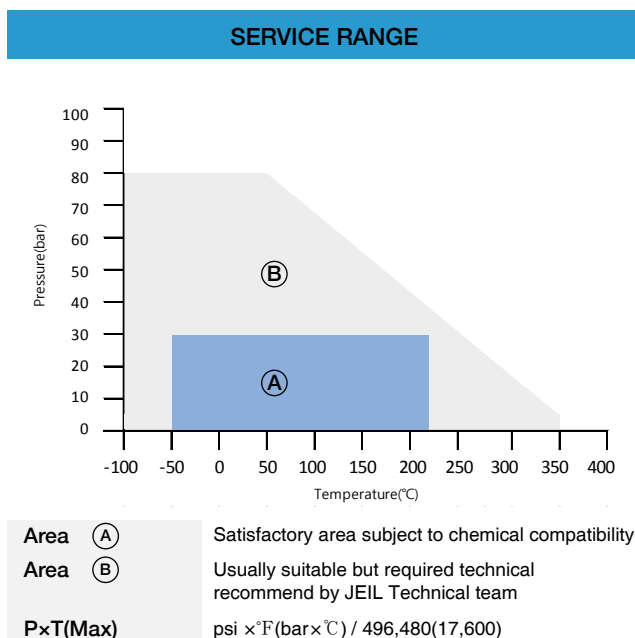
### WARNING

- Not available with max. temperature & pressure at the same time
- Guide line only, if outside this range contact us.
- Do not re-use gaskets unless this is specifically indicated.
- Do not use gasket compounds with gasket as this will adversely affect performance.
- Please consult with JEIL's Technical team for application of steam & explosive gas line especially.

# Compressed Asbestos-Free Gasket **LEAKBLOK® Premium P200**



MATERIAL PROPERTIES	
Product Name	LEAKBLOK® Premium P200
Color	Blue(Black Printed)
Composition	Aramid Fiber + NBR Binder
Fluids Service	Portable Water, Oils, Fuels, Salt Solution, Mild acids and alkalis, gas line
Pressure	Short-term peak 80bar (1160 psi)
Temperature	Continuous -50℃ (-58°F) ~ 220℃ (428°F)  Short-term peak Max 350℃ (660°F)
pH range	4-11
Thickness	0.8 ~ 3.2(mm)
Size	1270(W)×1270(L), 3M~10M, 15M~20M(L) 1500(W)×1500(L), 3M~10M, 15M~20M(L)
Certificates	Lloyd's & ABS Type Approval , TA-Luft(VDI 2440), WRAS, BS 7531 Grade Y Fire Endurance Test(ISO 19921 & 19922)



PHYSICAL PROPERTIES		
Test Method	Description	LEAKBLOK® P200
ASTM D792	Density (g/cm³)	1.9
ASTM F152	Tensile Strength Across grain.MPa (kgf/mm²)	15.0(1.53)
ASTM F36 Procedure J	Compressibility (%) Recovery (%)	9 71
DIN 3535 -6	Gas permeability (ml/min)	≤ 0.01
DIN 52913	Relaxation Stress(MPa) - 50MPa 16 hours @ 175℃	38.2
BS 7531	Relaxation Stress(MPa) - 40MPa 16 hours @ 300℃	23.7
VDI 2440 (TA - Luft)	Leak rate ( mbar·l /(s·m) ) -at 150℃ 48 hours	2·10 <sup>-8</sup>

IMMERSION PROPERTIES		
Test Method	Description	LEAKBLOK® P200
ASTM F146 at 150℃×5hrs		
ASTM Oil no 3	Thickness Increase (%)	3
at 20~30℃×5hrs		
ASTM Fuel B	Thickness Increase (%)	6
	Weight Increase (%)	9

GASKET DESIGN DATA		
Thickness (mm)	Gasket Factor(m)	Min. Design Seating Stress(y) Kg/cm² (psi)
3.2	2.00	112(1600)
1.6	2.75	260(3700)
0.8	3.50	457(6500)

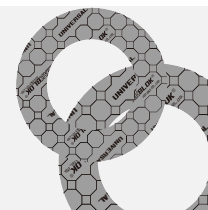
\* All data are 1.5mm thickness typical value.

Innovative technology, LEAKBLOK®, absolutely distinguished from the traditional way of calendar roll production, It specially invented with environmentally friendly solvent free process.  
Compare with previous product, it shows strong durability and superior at low seating stress.  
Suitable for use steam and clean line, excellent protection of fluid contamination.

## WARNING

- Not available with max. temperature & pressure at the same time
- Guide line only, if outside this range contact us.
- Do not re-use gaskets unless this is specifically indicated.
- Do not use gasket compounds with gasket as this will adversely affect performance.
- Please consult with JEIL's Technical team for application of steam & explosive gas line especially.

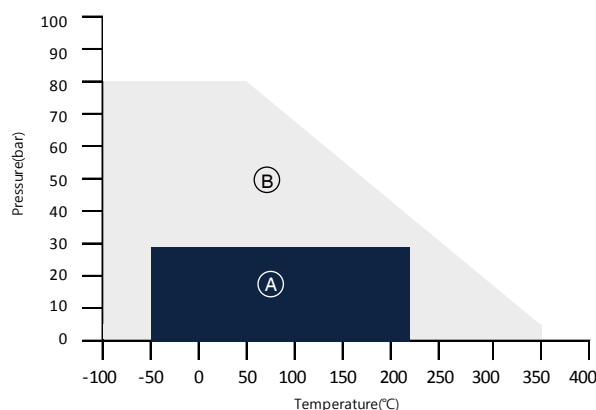
# Compressed Asbestos-Free Gasket **LEAKBLOK® Premium P300**



## MATERIAL PROPERTIES

Product Name	LEAKBLOK® Premium P300
Color	Silver(Black Printed))
Composition	Aramid Fiber + SBR Binder
Fluids Service	Portable Water, Oils, Fuels, Salt Solution, Mild acids and alkalis, gas line
Pressure	Short-term peak 80bar (1160 psi)
Temperature	Continuous -50℃(-58°F) ~ 220℃(428°F)  Short-term peak Max 350℃(660°F)
pH range	4-11
Thickness	0.8 ~ 3.2(mm)
Size	1270(W)×1270(L), 3M~10M, 15M~20M(L) 1500(W)×1500(L), 3M~10M, 15M~20M(L)
Certificates	Lloyd's & ABS Type Approval , TA-Luft(VDI 2440), WRAS, BS 7531 Grade Y Fire Endurance Test(ISO 19921 & 19922)

## SERVICE RANGE



Area (A)	Satisfactory area subject to chemical compatibility
Area (B)	Usually suitable but required technical recommend by JEIL Technical team
P×T(Max)	psi ×°F (bar×℃) / 496,480(17,600)

## PHYSICAL PROPERTIES

Test Method	Description	LEAKBLOK® P300
ASTM D792	Density (g/cm³)	1.9
ASTM F152	Tensile Strength Across grain.MPa (kgf/mm²)	15.0(1.53)
ASTM F36 Procedure J	Compressibility (%) Recovery (%)	9 73
DIN 3535-6	Gas permeability (ml/min)	≤ 0.01
DIN 52913	Relaxation Stress(MPa) - 50MPa 16 hours @175℃	37.6
BS 7531	Relaxation Stress(MPa) - 40MPa 16 hours @300℃	23.8
VDI 2440 (TA - Luft)	Leak rate ( mbar·l / (s·m) ) -at 150℃ 48 hours	2·10 <sup>-8</sup>

## IMMERSION PROPERTIES

Test Method	Description	LEAKBLOK® P300
ASTM F146 at 150 °C×5hrs		
ASTM Oil no 3	Thickness Increase (%)	10
at 20~30℃×5hrs		
ASTM Fuel B	Thickness Increase (%)	10
	Weight Increase (%)	17

## GASKET DESIGN DATA

Thickness (mm)	Gasket Factor(m)	Min. Design Seating Stress(y) Kg/cm ²(psi)
3.2	2.00	112(1600)
1.6	2.75	260(3700)
0.8	3.50	457(6500)

\* All data are 1.5mm thickness typical value.

Innovative technology, LEAKBLOK®, absolutely distinguished from the traditional way of calendar roll production, It specially invented with environmentally friendly solvent free process.  
Compare with previous product, it shows strong durability and superior at low seating stress.  
Suitable for use steam and clean line, excellent protection of fluid contamination.

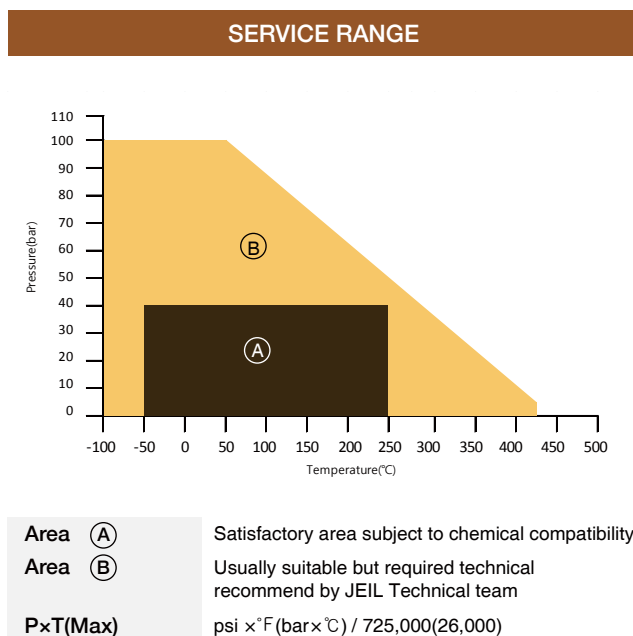
## WARNING

- Not available with max. temperature & pressure at the same time
- Guide line only, if outside this range contact us.
- Do not re-use gaskets unless this is specifically indicated.
- Do not use gasket compounds with gasket as this will adversely affect performance.
- Please consult with JEIL's Technical team for application of steam & explosive gas line especially.

# Compressed Asbestos-Free Gasket **LEAKBLOK® Premium P400**



MATERIAL PROPERTIES	
Product Name	LEAKBLOK® Premium P400
Color	Brown(Black Printed))
Composition	Aramid Fiber + NBR Binder
Fluids Service	Portable Water, Oils, Fuels, Salt Solution, Mild acids and alkalis, gas line
Pressure	Short-term peak 100bar (1450 psi)
Temperature	Continuous -50℃ (-58°F) ~ 260℃ (500°F)  Short-term peak Max 430℃ (806°F)
pH range	4-11
Thickness	0.8 ~ 3.2(mm)
Size	1270×1270, 1500×1500 (mm)
Certificates	Lloyd's & ABS Type Approval , TA-Luft(VDI 2440), WRAS, BS 7531 Grade X Fire Endurance Test(ISO 19921 & 19922)



PHYSICAL PROPERTIES		
Test Method	Description	LEAKBLOK® P400
ASTM D792	Density (g/cm³)	1.9
ASTM F152	Tensile Strength Across grain. MPa (kgf/mm²)	16.7(1.70)
ASTM F36	Compressibility (%)	8
Procedure J	Recovery (%)	63
DIN 52913	Relaxation Stress(MPa)	
	- 50MPa 16 hours @300℃	38.2
BS 7531	Relaxation Stress(MPa)	
	- 40MPa 16 hours @300℃	25.1
DIN 3535 -6	Gas permeability (ml/min)	≤ 0.01
VDI 2440 (TA - Luft)	Leak rate ( mbar.l /(s.m) )	2·10 <sup>-8</sup>
	- at 150℃ 48 hours	

IMMERSION PROPERTIES		
Test Method	Description	LEAKBLOK® P400
ASTM F146		
at 150℃×5hrs		
ASTM Oil no 3	Thickness Increase (%)	4
at 20~30℃×5hrs		
ASTM Fuel B	Thickness Increase (%)	1
	Thickness Increase (%)	4

GASKET DESIGN DATA		
Thickness (mm)	Gasket Factor(m)	Min. Design Seating Stress(y) Kg/cm² (psi)
3.2	2.00	112(1600)
1.6	2.75	260(3700)
0.8	3.50	457(6500)

\* All data are 1.5mm thickness typical value.

Innovative technology, LEAKBLOK®, absolutely distinguished from the traditional way of calendar roll production, It specially invented with environmentally friendly solvent free process. Compare with previous product, it shows strong durability and superior at low seating stress. Suitable for use steam and clean line, excellent protection of fluid contamination.

## WARNING

- Not available with max. temperature & pressure at the same time
- Guide line only, if outside this range contact us.
- Do not re-use gaskets unless this is specifically indicated.
- Do not use gasket compounds with gasket as this will adversely affect performance.
- Please consult with JEIL's Technical team for application of steam & explosive gas line especially.



**Why**

Environmentally Friendly Solvent Free Process  
**LEAKBLOK**<sup>®</sup> ?

for customers  
around the World

**L**ower Costs for Client (Time/Process/Handle etc)

**E**co-Friendly for Client's Purpose

**A**ggressive Sales with LEAKBLOK<sup>®</sup>

**K**eeping Workshop Clean & Tiny

**B**esides, Make your Plants SAFE

**L**eading the Market with LEAKBLOK<sup>®</sup>

**O**vious way to get good Productivities

**K**orean Origin from JEIL's TECH Support

