

Typical Application Guide for Phoenix " Plant wide " Gasketing System @ Bleach Pulp Mills - Integrated Clo2 plant

Sr No	Medium Description	Operating Pressure Kg/cm2	Operating Temper. Deg. C	Design Pressure Kg/cm2	Design Temp. Deg. C	Original spec. gaskets Replace with	Thk and Type of Gaskets
1	<u>33 % HCL storage Tank</u> Original spec of Gasket 3 mm thk PTFE jacketed CAF	-0.01	35 to 40	-0.015	60	6962 EPDM	1/8" thk
2	<u>Cell Gas Scrubber</u> H2 =97.5% Volume, O2 = 2% Volume Cl2=0.5% Volume on dry basis Saturated with water vapour <u>Original Spec.of gaskets</u> 6 mm thk Hypalon with steel insert	0.05	45 to 50	0.08	60	6962 EPDM	1/8 "thk
3	<u>Cell gas Overpressure safety vessel</u> H2 =97.5% Volume, O2 = 2% Volume Cl2=0.5% Volume on dry basis Saturated with water vapour Original spec.of gaskets 6 mm thk Hypalon gasket	0.05	45 to 50	0.08	60	6962 EPDM	1/8 " thk
4	<u>Pickling Tank</u> Hcl with 6 % inhibitor (Con. 0 to 37%) Original Spec. of gaskets 3 mm thk PTFE jacketed CAF	Atm.	Ambient	Full of Liquid	60	6962 EPDM	1/8" thk

Typical Application Guide for Phoenix " Plant wide " Gasketing System for Pulp Mills - Chlorine dioxide plant

Sr No	Medium Description	Operating Pressure Kg/cm2	Operating Temper. Deg. C	Design Pressure Kg/cm2	Design Temp. Deg. C	Original spec. gaskets Replace with	Thk and Type of Gaskets
5	<p><u>Seprating Column</u> Liquid inlet chilled water +HCL Liquid outlet water contain 8 gpl Clo2 , 1gpl Cl2 gas, 1 gpl Hcl Gas Inlet Volume : Air = 55.16 % chlorine =16.53%,H2O = 7.65 % Clo2 = 20.66 % Gas Outlet Volume : Air = 74.13 % chlorine =18.89%,H2O = 6.7 % Clo2 = 0.28 % Original Spec. of gaskets 3 mm thk PTFE jacketed CAF</p>	-0.03	9	-0.05	50	PP 340/ R3400 (PS 5003)	" 1/8 " thk
6	<p><u>Sodium Chlorate Tank</u> Electrolyte solution containing 500 gpl Na2clo3 , 100 gpl Nacl, 1 gram /litter (gpl) HCL, 3to 6 gpl Na2Cr2O7, 0.5 to 0.8 gpl Naocl Original Spec. of gaskets 3 mm thk PTFE jacketed CAF</p>	Atmospheric	55	Full of liquid	65	6962 EPDM	1/8 ' thk

Typical Application Guide for Phoenix " Plant wide " Gasketing System for Pulp Mills - Chlorine dioxide plant

Sr No	Medium Description	Operating Pressure Kg/cm2	Operating Temper. Deg. C	Design Pressure Kg/cm2	Design Temp. Deg. C	Original spec. gaskets Replace with	Thk and Type of Gaskets
7	<u>Caustic Head Tank</u> 18 % NaOH Original gaskets spec. 3 mm thk PTFE jacketed CAF	Atmospheric	35	Full of liquid	60	6962 EPDM	1/8 " thk
8	<u>Clo2 water Tank</u> Original gasket Spec. 3 mm thk PTFE jacketed CAF	(-) 20mmwc	50	(-10)mmwc	8 to15	PP 340/ R3400 (PS 5003)	1/8 " thk
9	<u>Under pressure safety vessel</u> Process water And air. Orginial gasket spec. 3 mm thk PTFE jacketed CAF	-0.05	50	-0.035	35	6962EPDM OR PP 340/ R3400 (PS 5003)	1/8 " thk
10	Chlorine dioxide gas Chlorine dioxide solution 0 to 14 gm/L Chlorine dioxide / Air Mixture		(-) 7 to 60 7 to 12 7 to 12	Near full vacuum 0 to 60 psi Slight vacuum		PS 5003 / 5006 PS 5003 PS 5003	Bulb/Flat 1/8 " thk

The above are Typical and to be use as a guidelines only. Specific details should be discussed with our technical people to verify proper use of particular gasketing into specific application. Flange design, materials of construction, quality of flanges finish, available Bolt load and Torque etc. can affect the gaskets materials of choice.