

Vulcan Sales Lead - Papermills

Vulcan's Sales Policy is to supply the trade through our approved distributor network. One of the many benefits of being a Vulcan distributor is the facility to tap into our knowledge on mechanical seal applications and use that, together with our design and manufacturing abilities, to gain business in a niche market within the seal and pump industries.

Most countries around the World have some sort of paper production industry, with the highest concentration being in Scandinavia. Paper mills have a huge range of sealing products on site, through standard and specialist mechanical seals to gland packings, and PTFE gaskets.

Vulcan Tefcan® has massive potential at paper mills, as it offers the engineers on site a convenient seal-all gasket material that will be resistant to all the chemicals that may be present on site. Some sample locations for Tefcan® to be used in a paper mill are;

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| Pulping Mill | - "Kamyr" continuous digester lids, outlets and scrapers |
| | - Liquor and Stock line flanges |
| | - Blow line flange |
| | - Steam flanges (provided temperature is below 310'C) |
| | - Manholes, Handholes & Tank lids |
| | - Feeder & Heater end caps & flanges |
| | - Valve & pump flanges and housings |
| | - Sand separator gaskets |
| Bleach Plant | Chemical line flanges, Chlorine, Chlorine dioxide, all Caustics (Sodium hydroxide), acids etc. |
| | - F.R.P. & lined pipe flanges (Tefcan® requires only low stress to provide a good seal). |
| | - Slurry & Gas generation lines |
| | - Bleach tower, mixer & tank lids |
| | - Steam & effluent flanges |
| | - Manholes, handholes & pump housings |
| Paper Machine | Dryer drum manholes, handholes & end caps. |
| | - Rotary steam joints, ie Johnson (Joco) etc. |
| | - Steam & condensate flanges, if under 310'C |
| Recovery | - Manholes, handholes & lids for Reco, Boiler, Clarifier, Slaker, Causticizer and Evaporators |
| | - Liquor line flanges |
| | - Lime slurry, tall oil and turpentine flanges |

Gland packing is widely used within paper mills, not only in pumps but also other pieces of rotary equipment such as drum dryers and rotary screens. It is imperative in paper mills that no dark material gets into the media, as this will obviously taint the paper. Also "Kevlar" aramid packings are not suitable either due to the wear inflicted by the packing on the equipment.

Vulcan offer truly and properly designed packings for papermill use, VM1 and VM7 utilise "Nomex" fibre that gives very high tensile strength, high heat resistance, high compressability, low friction, and a fast break-in once installed.

Many standard pumps in paper mills feature multi-spring balanced seals with DIN O-ring or clamped-in seats. Vulcan offer the Type 40 seal as a superior design direct replacement for these applications. The Type 40 is robust, hydraulically-balanced, non-clogging, and has the dynamic 'O'-ring protected from the media.

FEP Encapsulated 'O'-rings provide the perfect chemical resistant static seal for the large cartridge-type mechanical seals often found in papermills. FEPs are ideal in such locations, as they provide universal chemical resistance to both acids, alkalies and organic solvents in a process environment where all three classes of chemical are frequently found.