

marathon

HIGH TEMPERATURE WOVEN BELTS FOR GLASS CONVEYING

For several years we have woven belts to operate at high temperatures and initially these were used almost exclusively in the aluminium extrusion industry as conveyor belts, slat-top covers and roller sleeves.

A natural progression from this was to extend the use of high temperature woven belts into glass manufacturing and as well as the existing products such as Triton in various forms, new products are now available woven from PBO, one of a family of sophisticated fibres perhaps better known for its use in such applications as personal body armour.

Triton is a fabric woven from a blend of aramid and pan/carbon fibres and in loom state can withstand contact temperatures of around 450°C. As a conveyor belt it is used on applications involving the conveying of glass items to the Lehr after some initial cooling has taken place. It is also woven in tubular form where it is used, for example, for covering tongs for lifting hot products, especially in the hand-made glass & crystal type of application. It is also supplied with an impregnation of an inorganic, environmentally benign, solution capable of withstanding temperatures well in excess of 600°C., thus increasing the contact temperature capabilities of Triton to around 500°C. In this semi-rigid form it is used as a facing material on such applications as push-bars.



PBO (polybenzoxazole) yarn has a temperature resistance well in excess of that of aramid yarns and will not start to decompose until an air temperature of 650°C is reached. With a light impregnation such as that used for Triton, it is used for such applications as wipe-out arms, guide bars and, when woven in tubular form, as sleeves for metal rollers. It is also supplied as a conveyor belt where it can be used for carrying pressed glass items.

Other specialised applications that can be catered for include scoop liners in glass bulb production and tractor pads in glass tube production. PBO is also in use as a direct replacement for asbestos pads on a hand-drawn glass rod and tubing rig.

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