

Z-47 Articulated Wire Belt

Flat, flexible articulated wire band for continuous biscuit baking ovens — the belt Roshan Industries is best known for.

The Z-47 articulated wire band is the belt most widely used by biscuit manufacturers for baking. Wire coils are articulated into one another and the weave is then flattened under a press, giving a perfectly flat carrying surface.

Because the band is open, hot air circulates freely around the product for rapid, even drying and baking. The articulated construction gives the band strong longitudinal flexibility, so it follows the surface of drums and rollers, while the sides are reinforced without creating uneven thickness.

Construction

Mild steel or stainless steel wire coils are articulated into one another, then laminated (flattened) under a press to produce a flat, uniform belt surface. The edges are strengthened while the band keeps its full flexibility.

Key data

Item	Detail
Materials	Mild steel (high-tensile hard-drawn wire), Stainless steel, Other materials on request
Wire	17 gauge (1.40 mm), 18 gauge (1.20 mm), 20 gauge (0.90 mm)
Temperature	Up to 600 °C (mild steel, 18 SWG)
Edges	Welded edge, Bent edge
Applications	Biscuit baking ovens, Cookie and cracker baking, Drying lines needing a flat, open surface

Typical Z-47 data – mild steel, 18 SWG

Property	Value
Wire	Mild steel (120) 18 SWG H.H. wire
Temperature	Up to 600 °C
Weight	680 g per sq. ft
Gauge diameter	1.20 mm
Initial area	1.23 mm ²
Ultimate load	2 kg per sq. ft

Hard-drawn wire used as per international standard.

Wire chemistry and tensile strength

U.T.S.	C %	Mn %	Si %	S %	P %
75.19 kgf/mm ²	0.69	0.69	0.21	0.22	0.16

Request a quotation: <https://roshanind.com/request-a-quote/?product=z47-articulated-wire-belt>