

NITRO SPORT 1SL™ COUNTER and TOE BOX MATERIAL

NITRO SPORT 1SL™ is a new, revolutionary extruded thermoplastic material that uses our patented foaming process of infusing NITROGEN gas into the polymer core of the material. The NITROGEN gas displaces a portion of the polymer core and still maintains the Stanbee edict of thinner, stronger, more resilient and now with the nitrogen gas infused, even lighter in weight. NITRO SPORT 1SL™ provides excellent shape retention, is very resilient and has a great flexible feel.

In addition to all the performance advantages of unmatched resiliency, shape retention and moisture resistance, NITRO SPORT 1SL™ also contains over 68% recycled content and is available in our Zero Waste Net Part Program. Nitro Sport 1SL provides a very sustainable, high quality and cost-effective solution for your counter and box toe needs.

Standard offerings are listed below but custom options with and without laminates can be made available to suit the application.

Composition

The polymer core is a proprietary blend of resins infused with Nitrogen gas and one side with a fabric backer and the other side with our proprietary hot melt adhesive that will bond to all uppers, including oily leathers.

Work Preparation

Cutting: Nitro Sport 1SL™ is a multi-directional material. It can be cut in horizontal, vertical and diagonal direction. This will allow for optimum cutting yields.

Heat Activation: Recommend Bond Line temperature of 85°C, +/- 5C.

Cooling.: Product should be allowed to cool for sufficient time to allow bond-line temperature reaches roughly 30°C. before de-lasting to ensure shape is confirmed and set.

Zero Waste Program

Nitro Sport 1SL™ is part of our Zero Waste Program and is ordered by the part instead of sheet format. This allows all the cutting waste to be recycled in house and provides a more sustainable solution. All that is required is a DXF file of the full size run and we will deliver ready for production toe puff and counters.

General Information

Sheet Size:	40" x 60" (101.6cm x 152.4cm)
Area:	1.852 SY – 1.548 SM
Packaging:	Sheets are put on pallets of 500 sheets per pallet.
Storage:	Store in a dry cool area. Recommended shelf life is 2 years.
Patent:	NITRO SPORT 1SL™ products are protected under US Patent Number 12,138,900.

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Product Specification

GRADE	Gauge (± 5%) (mm)	Weight (± 4%) (g/sqm)	PHYSICAL PROPERTY (Minimum Values)			
			1 st Collapse (Kg)	10 th Collapse (Kg)	Resiliency (%)	Bond Strength (Kg/cm)
NITRO SPORT 1SL™ 0.4	0.49	376	0.35	0.25	70	1.0
NITRO SPORT 1SL™ 0.6	0.69	512	0.75	0.50	70	1.0
NITRO SPORT 1SL™ 0.8	0.91	671	1.25	1.00	70	1.2
NITRO SPORT 1SL™ 1.0	1.11	830	2.20	1.50	65	1.2