



Preventing Seam Puckering

ORGAN® NEEDLES INFORMATION

NS Series

Sewing the delicate material like new synthetic fiber, requires careful attention to avoid seam puckering. The ORGAN "NS" Series has a unique design to prevent seam puckering.



The ORGAN "NS" series needles was developed after exhaustive studies about the factors contributing to seam puckering and how an improved needle design could alleviate this problem.



ORGAN NEEDLE CO., LTD.

Suitable for Sewing Delicate Synthetic Materials

STITCHES	SYSTEM NUMBER	8	9	10	11	12	14	REGULAR SYSTEM
Lock Stitch	DB×1NS	●	●	●	●	●	●	DB×1.1738.16×257
Lock Stitch/Zig-Zag Stitch	DP×5NS	●	●	●	●	●	●	DP×5.DP×134.134R.135×5.797
Overlock	DC×1NS	●	●	●	●	●		DC×1.81×1.621 MY1023A DC×27.B-27.MY1023
Buttonhole	EB×755NS				●	●	●	EB×755.501(SC).755H,1807.1807D
Button-Sewing	MT×190NS				●		●	MT×190.190

Causes of Seam Puckering

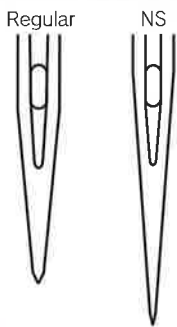
Seam puckering is usually caused by the following:

- (A) Difference in feeding layers of fabric which slip and slide between themselves.
- (B) Too tight thread tension.
- (C) The fabric is warped by the piercing needle or sewing thread.
- (D) Humidity changes.

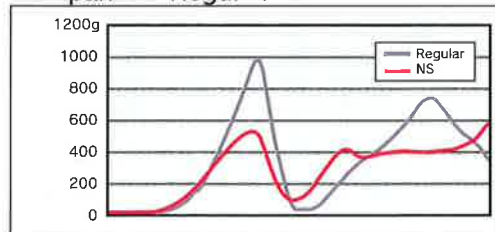
● Sewing machine needles have direct influence regarding "C" (warped fabric).



Needle Point Shape



Penetration Resistance Comparison-Regular/NS



Needle System : DB×1 11
Penetrating Depth : 15mm
Penetrating Speed : 250mm/min

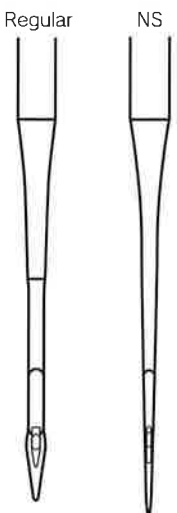
Material Sewn : Blayers
Data Sampling : 50ms

"NS" Series Tapered Needle Point

Preventing Seam Puckering #1

"NS" series has a tapered needle point that is much slimmer than the standard types. This extremely slim shape allows the needles to greatly reduce the penetration resistance. In fact, resistance is reduced by at least 45% as compared to standard needle types.

Needle Blade Shape

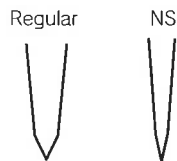


"NS" Series Needle Blade

Preventing Seam Puckering #2

"NS" series has a straight, tapered blade shape from the shank to the point. This slim design alleviates concerns about the needle thickness even under the sewing conditions that require deep penetration.

Needle Tip Shape



"NS" Series Tip of Needle Point

Preventing Seam Puckering #3

The "NS" series has an extremely sharp needle tip to prevent deflection of the threads in the weave of the fabric. This very sharp needle tip-SPI point assures precise penetration.

A-SU Surface Treatment

Preventing Seam Puckering #4

The A-SU surface treatment of the needle helps eliminate penetration resistance that would otherwise distort or warp the fabric weave.

Look for the "NS" + "A-SU" designation on ORGAN packaging.

-10pcs-
DB×1NS
Size 65/9ASU



ORGAN NEEDLE CO., LTD.

1 Oaza Maeyama, Ueda-shi, Nagano-ken 386-1436, Japan
TEL: +81-268-38-3117, FAX: +81-268-38-5188
E-mail: sales-dpt@organ-ndl.co.jp
http://www.organ-needles.com/