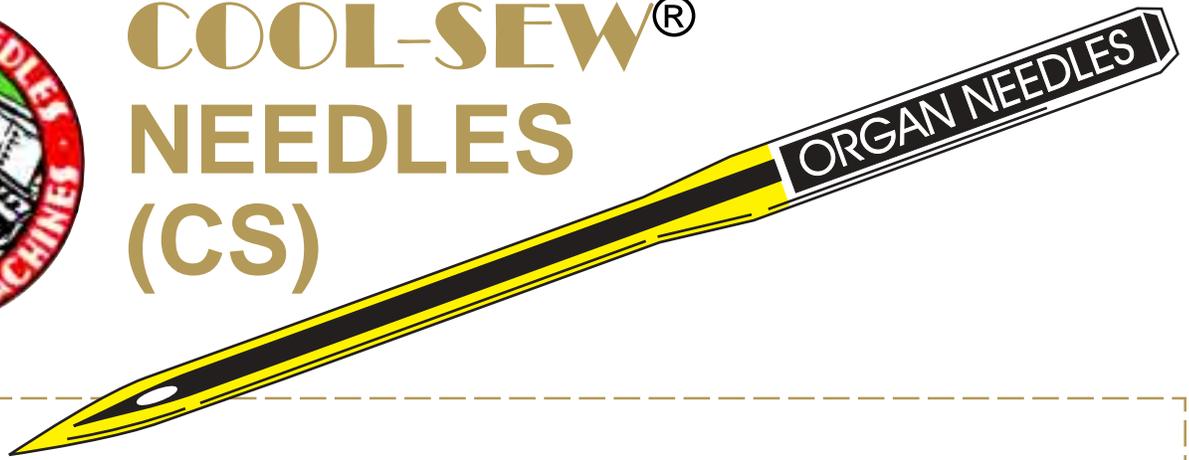




COOL-SEW® NEEDLES (CS)



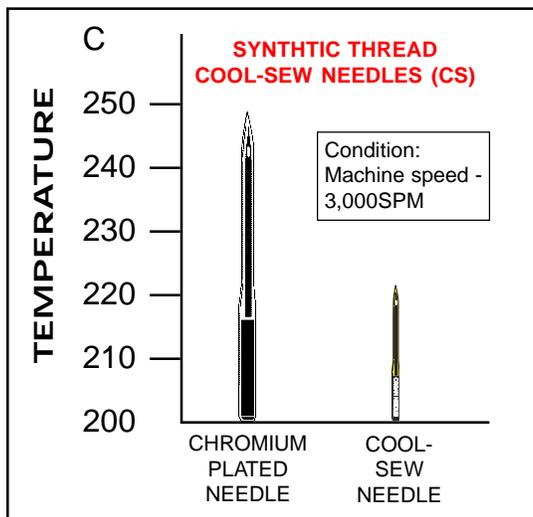
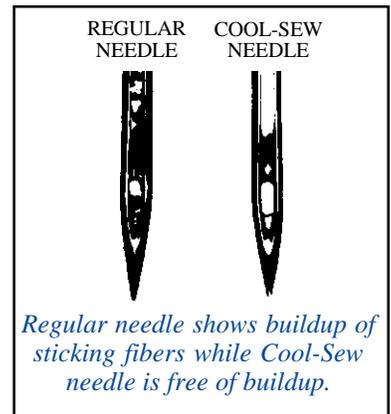
The **COOL-SEW*** finish was developed to alleviate needle problems resulting from the following situations:

- (1) Heat Buildup in penetration of synthetic, chemically treated, or very dense materials
- (2) Materials or residue sticking to needle surface or in eye
- (3) Excessive sewing thread breakage due to friction in the needle eye

* COOL-SEW is the registered trade mark of Diamond Needle Corp for non-stick finish on sewing machine needles.

As a needle penetrates synthetic, chemically treated or very dense materials a great deal of friction may develop. The needle may get so hot as to actually melt or fuse the sewn material along the seam. The needle's heat may melt the synthetic sewing thread. When the machine stops, the melted residue may stick to the needle surfaces as it cools.

The nature of some materials makes them rather "sticky." Materials such as rubber, foam, and synthetic fillers stick to surfaces with which they make contact. They may stick to needles which penetrate through them, even at relative slow sewing speeds. The result may cause undesirable stitch appearances as these materials push through or pull up through needle holes.



Synthetic threads often have a higher friction coefficient than natural fiber threads such as cotton. Passing through the eye of a needle friction develops which causes the needle to heat up. As the speed of the thread passing through the eye of the needle increases, the heat of the needles rises, often to temperatures which will melt the synthetic sewing thread causing it to break.

Chemical coatings or treatments of threads and materials may

**Diamond
Needle
Corp.**



**WHITE
DIAMOND**

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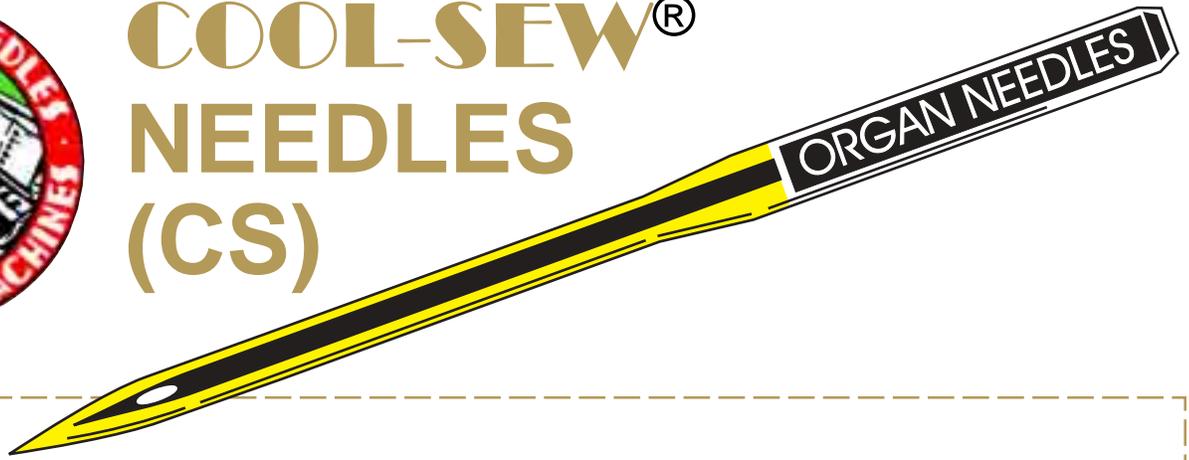
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COOL-SEW[®] NEEDLES (CS)



cause troublesome sewing problems. Bonded layers, waterproofing, dyes, starches, adhesives, sizings, or other alterations to any fibers may result in needle heat-buildup, sticking problems, excessive thread breakage, and clogged needle eyes.

The **COOL-SEW** finish needle's surfaces, even in the eye, are resistant to sticking. Its non-stick finish has a very low friction coefficient which prevents excessive heat buildup and its resulting problems. Few, if any, materials stick to the surfaces of Cool-Sew needles.

When **Cool-Sew** needles are used under conditions described above you can expect neater stitches, less sewing thread breakage, less puckered stitches, less downtime, less defects, and increased productivity.

COOL-SEW needles are ideal for sewing through vinyl, synthetics, chemically treated materials, glued materials, rubberized goods, nylon, foam, dense materials, and with synthetic threads.

**AVAILABLE
IN POPULAR
TYPES & SIZES**

ORGAN NEEDLES —
Created with precision to solve
any sewing problem.



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