

Perma-Hand Surgical Silk advertisement.

[s.l.]: [s.n.], 1960

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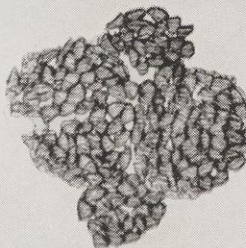
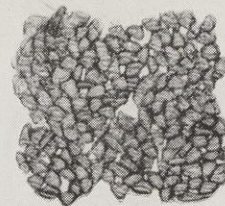
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ORDINARY silk suture 5-0

Cross-sections, unretouched microphotograph

Gums and other impurities — comprising 30% of silk — have been removed after braiding. Resulting loss in suture volume causes looseness, limpness and handling difficulties despite the addition of coatings and other additives.



**de-gummed
before
braiding
for ideal
handling
properties**

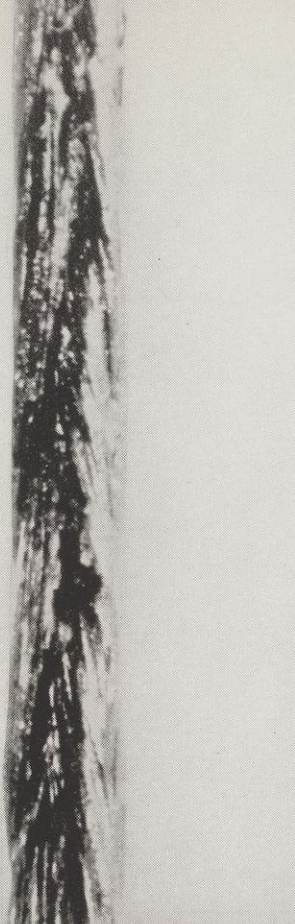
ETHICON PERMA-HAND Surgical Silk Suture 5-0

Cross-sections, unretouched microphotograph

But Ethicon removes gums and impurities **before** braiding. Suture remains tightly braided. And there are no loose strands that cause ends to "broom." Because the handling qualities are permanently built into ETHICON PERMA-HAND Surgical Silk, no special coatings are needed.

**not a limp strand...
but a suture with "hand"**

PERMA-HAND surgical silk

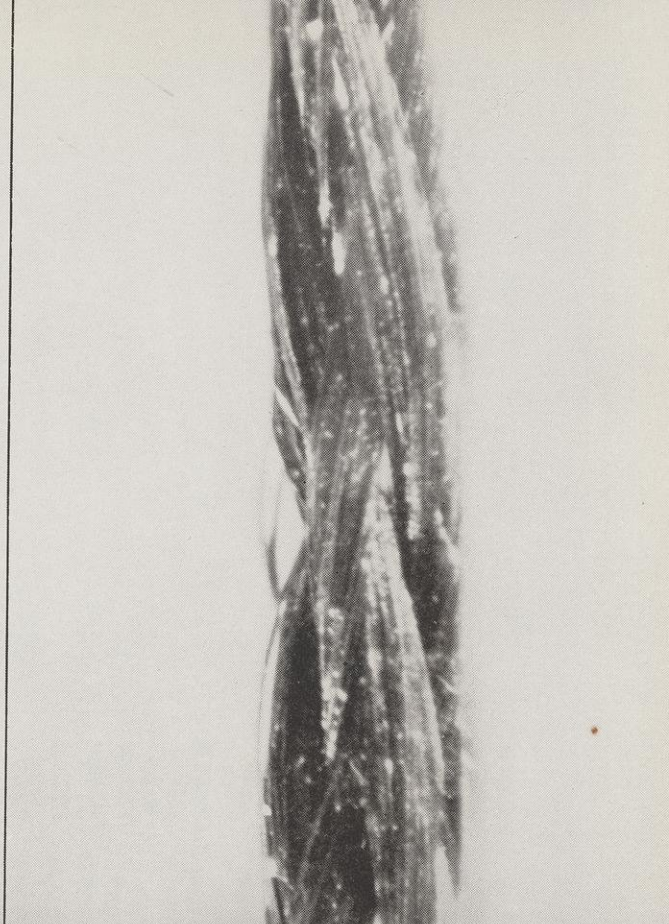


**braided with
"slow control"...
for uniform
diameter and
tightness
of braid**

ETHICON PERMA-HAND Surgical Silk Suture 5-0

Unretouched microphotograph

Here, strands are tightly held within the suture because the braid is even throughout. Ethicon "slow-controlled" braiding assures "live" silk that resists breakage during knot-tying.



ORDINARY silk suture 5-0

Unretouched microphotograph

Note typical loose strand and unevenness of the braid. Rapid braiding does not permit adequate control of uniformity... results in "dead" and brittle silk. This causes strand to shear against itself and frequently break during knot-tying.

In a recent national survey, surgeons indicating characteristics most desirable in a surgical silk suture expressed these preferences:

- uniform strength
- optimum extensibility
- optimum firmness and maximum pliability
- uniform diameter and smoothness
- firm knot-holding characteristics
- resistance to breakage

These are the qualities that add up to superior "hand." In ETHICON PERMA-HAND Surgical Silk, they're built into the suture through controlled processing—from raw silk to finished suture.

That's why ETHICON PERMA-HAND Surgical Silk was uniformly preferred by these surgeons.

ETHICON®