



METALLIC FIBER

**STUDY & ANALYSIS OF FIBRES
AND TEXTILES**

HALINDA SARASWATI





*Do you realize
These fabric are
made of metallic
fiber?*



What is Metallic Yarn?



Metallic Yarn is a yarn which are composed of metals or as a blend of metallic fiber with other fibers.



ALUMINIUM

GOLD

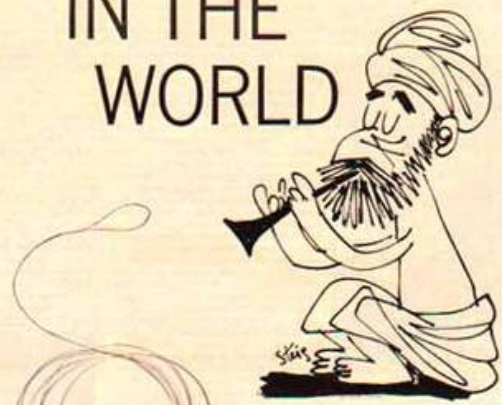
SILVER

COPPER

What is it made of?



WHO IN THE WORLD



made metallic yarn behave?

From the year 1, cloth of gold was a problem child. So were all of its impersonators. They tarnished, developed odors. They had a whole bag of tricks, none good. And they cost a fortune.

Then Dobeckmun came up with LUREX® the metallic yarn that cut out all the nonsense. Including the fancy price. Now every kind of fabric has been shot, woven, threaded with golden glimmer. And they're tossed into the Benetton, or sent to the cleaners, with everything else.



The Dobeckmun niche in industry is coming up with, and producing, things like Lurex. And Zip-Tape® the magic tape that opens a pack of cigarettes. And the first machine-made cellophane bag. And the first flexible "tin can". Or giving a package more sales appeal.

Dobeckmun thinking is as flexible as the materials it works with. And you'll find examples of it in almost every branch of American industry.

THE DOBECKMUN COMPANY, Cleveland, Ohio

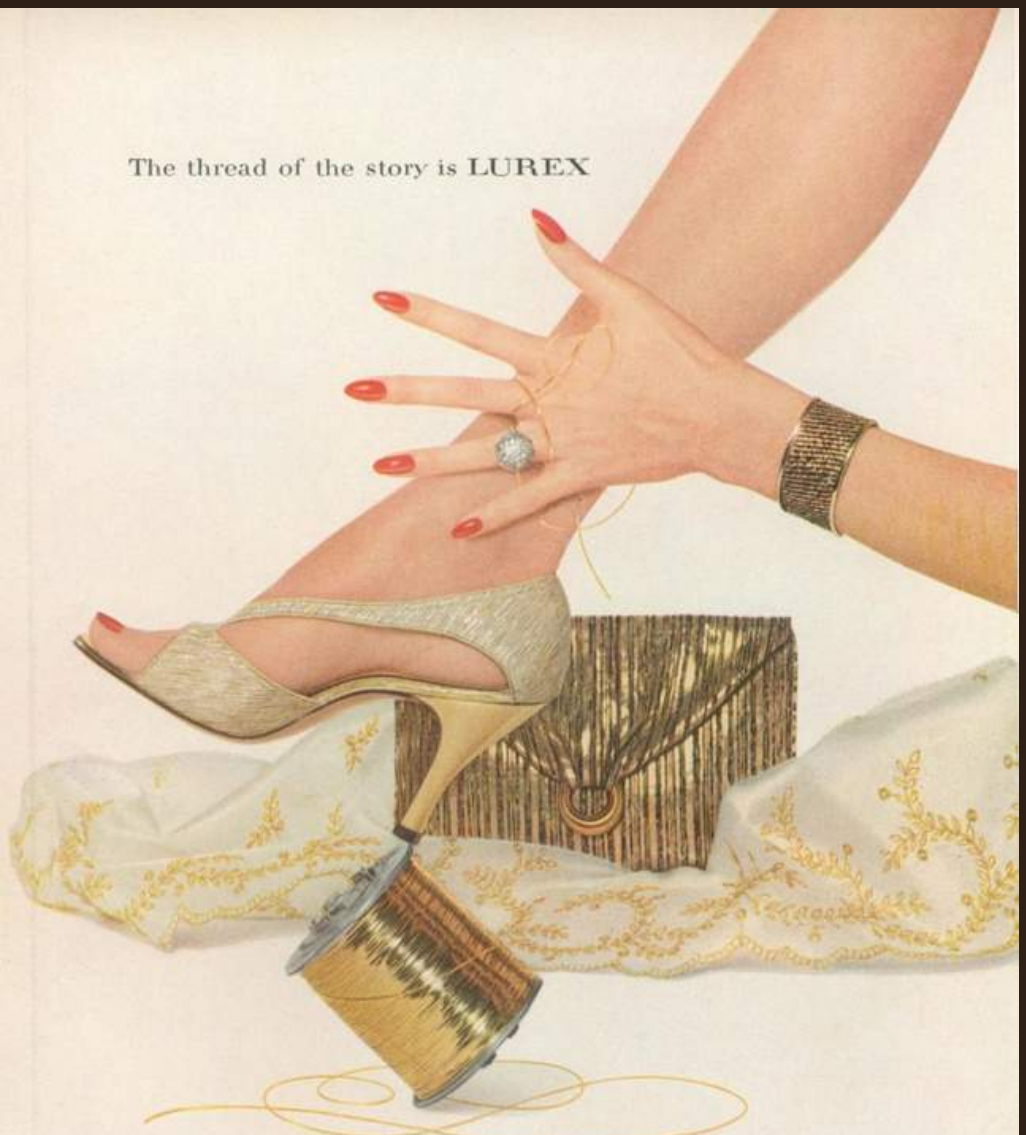
Creates Luminances of Fibers, Films and Flexible Materials

TIME, DECEMBER 31, 1953

41

This yarn has been produced since 1946 by the Lurex Division of the Dobeckmun Co., Cleveland (later a division of Dow), and its successors, currently (2019) the Lurex Company Ltd.

The thread of the story is LUREX



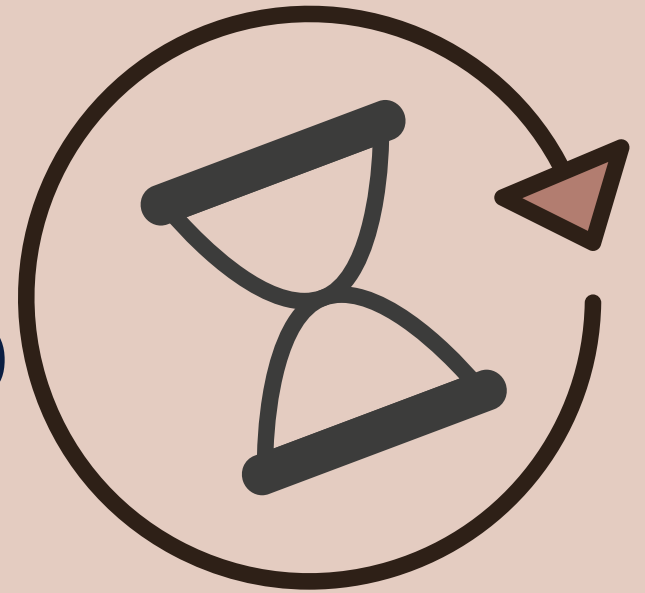
ACCESSORIES TO THE TIME in fabrics woven of gold Lurex®—holiday splendor, pointing up the Lurex trend that runs through all fashion. L. Miller shoe in Celanese acetate. Coblenz bag in silk tweed by Hirsch, bracelet by Zentall in a Dorothy Liebes fabric, both at Lord & Taylor. Emily Wetherby scarf in DuKay embroidery at Henri Bendel. Lurex, non-tarnishing metallic yarn, made only by The Dobeckmun Company, Cleveland 1, Ohio • New York: 350 Fifth Ave. • London • Amsterdam

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THE THREAD OF THE STORY
IS LUREX, NOV. 15, 1954.
VOGUE, VOL. 124, ISS. 9
(NOV 15, 1954)

How is it produced?



The process works by taking 'classic' fibres and expose them to the so-called 'metalizing' process. Here, the metal is heated until vapourisation and then deposited on the fibre. The resultant fibres are thin, flexible, durable, and very comfortable.

Another process involves dipping the fibres into sulphuric acid to create toeholds that, after being soaked in palladium salt and a nickel-plating solution, become encrusted with nickel crystals. The now-conductive fibre is then rigged to a charged copper ingot in a bath, with the result that copper particles electroplate its surface.





but did
you
know...

Fabrics with golden threads have been
produced for millennia.

SAMITE

The most luxurious of all the cloths of gold was samite, a heavy silk fabric interwoven with gold and silver threads. Samite was the fabric of kings, high-ranking nobility, and the clergy; its high status included it among the luxuries forbidden to the urban middle classes under various sumptuary laws of the Middle Ages and Renaissance Europe.



*Let's talk
about a
variety of
fabrics with
metallic
fibers in it!*



SHEER

- Chiffon
- Tulle
- Organza
- Lace

SMOOTH

- Lamé
- Taffeta

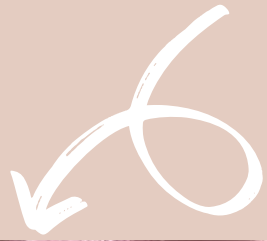
TEXTURED

- Tweed
- Jacquard
- Wool crepe
- Brocade



THE MOST COMMON FABRICS IN USE
TODAY THAT UTILIZE METALLIC YARNS
ARE

LAMÉ AND BROCADE



characteristics

ADVANTAGES

- have conductive capabilities
- absorb negative electricity from the body after skin contact
- has an antibacterial property
- does not cause itching or allergen in the body
- aesthetically perfect products

DISADVANTAGES

- were expensive to produce;
- they tended to be inflexible and stiff
- be careful when ironing because it might melt



HOW TO CARE? HOW TO CARE?

for Metallic and Lamé Clothes and
Accessories



- always check the care labels and follow those recommendations;
- if the label states "Dry Clean Only", you should follow the instructions;
- when wearing fabrics that have metallic threads woven into or embroidered onto fabrics, avoid brushing against rough surfaces to reduce snags and tears;
- On handbags and shoes, loose dirt and dust should be wiped away with a soft damp cloth in the direction of the fabric after every use

acids and alcohol can harm the fabric by dulling the finish, blot away any food and drink stains as soon as possible with a dry, white cloth. Then, blot the area with a cloth dipped in plain water and use a clean cloth to blot the fabric until dry

