

# Rayon Fabrics Made of Cupra-Ammonium Yarns

Remarkably fine materials now possible without the use of any silk whatsoever

By OTTO NIEMANN

Rayon yarns have been improved so in the last few years, that fabrics now are made which have the appearance, draping ability, softness and handle of silk materials.

There are two things in particular, which have made the above possible, i.e., the great advances made by certain rayon manufacturers in the manufacture of rayon, due mostly to improved chemical composition, and a reduction in the size of the individual filament to slightly over one denier. The above permits a relatively high amount of twist to be used without producing a harsh fabric.

The four swatches numbered 1, 2, 3 and 4, respectively, are made of fine filament cupra-ammonium yarns.

The yarns in these particular fabrics were treated with a special size before the high twist was inserted. This solution caused the yarn to shrink in its original form, and was one of the factors contributing to the excellent fabrics made.

All the materials were piece dyed.

They are as follows:—

No. 1

Light weight voile

Ends per inch = 64

Warp yarn = 80 denier, 20/25 turns of right twist.

Picks per inch = 64

Filling yarn = 80 denier, 20/25 turns of right twist.

*Editor's Note:*—Until very recently, silk fabrics have been the undisputed peers as high quality materials. There was practically no such thing as competition from any other raw material. Rayon today is so remarkably good, however, that one cannot say truthfully any more that silk is in a field by itself. It is considered that the fabrics illustrating this article practically speak for themselves, and a lengthy description is not necessary.

No. 2

Chiffon crepe

Ends per inch = 72

Warp yarn = 52 denier, 70/75 turns of twist (R & L)

Drawn 2 ends of right hand twist and 2 ends of left hand twist.

Picks per inch = 72

Filling yarn = 52 denier, 70/75 turns of twist (R & L)

Woven 2 picks of right hand twist and 2 picks of left hand twist.

No. 3

Satin crepe

Ends per inch = 160.

Warp yarn = 100 denier, 10/15 turns of right twist

Picks per inch = 76

Filling yarn = 100 denier, 10/15 turns of right twist

No. 4

Underwear and Shirting Fabric

Radium

Ends per inch = 165

Warp yarn = 52 denier, 7½ turns of right twist

Picks per inch = 96

Filling yarn = 52 denier, 40 turns of right twist

It is recommended that any finishing plant handling fabrics of this type, use clip and not pin tenter frames, otherwise trouble is liable to develop from shiners, if by any chance pins happen to pierce the cloth inside the selvages.

Cost Lower than Silk

The rayon yarns being lower in cost than silk yarns, together with the cost of finishing being lower, results in a final cost much lower than a silk fabric.

## Rayon Fabrics of Cupra-Ammonium Yarns



*Sample 1. Voile.*



*Sample 2. Chiffon Crepe.*



*Sample 3. Satin Crepe.*



*Sample 4. Radium.*