

THE INNOVATIVE WARP SIZING BLENDS

AVCO-SIZE



AVCOchem[®]
www.avcochem.com.vn

AVCO-SIZE

BENEFITS OF THE PRODUCT

- ✔ Easy swelling, save cooking time & energy
- ✔ Produces higher weaving efficiencies
- ✔ Flexible sizing film, very high binding capacity and individual threads are easily separated during the critical stages of drying, therefore the high speed of sizing machine is possible
- ✔ Manufactured to a consistent chemical and physical specification conforming to BS, EN, ISO standard
- ✔ Less broken sizes, dust, lint formation in weaving room.
- ✔ Less consumption comparing with conventional sizes: according to the construction, reduced from 20 – 30%.
- ✔ No need add wax in sizing recipe in most cases
- ✔ Easy desizing, there are some kinds of AVCO-Size only removed by washing with hot water

PRODUCT RECOMMENDATION

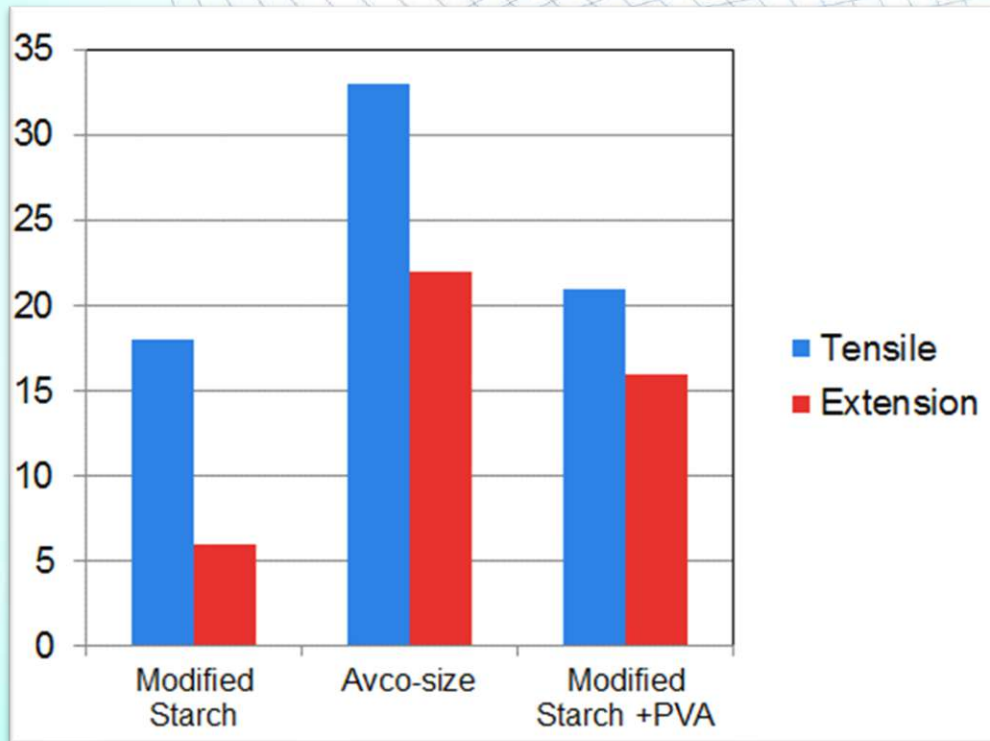
PRODUCT	IONICITY	FIBRES	APPLICATION
AVCO-SIZE 250	Weak anionic	Co, Pe/Co	Designed for sizing Co, TC yarns. Easy removed by hot water and enzyme.
AVCO-SIZE BHF	Nonionic	Co, viscose	Recommended for DENIM and viscose fabric. Easy removed only by hot water. Resistant to high humidity. Does not increase viscosity of starch when used in blends.
AVCO-SIZE DNC	Anionic	Co	Suitable for towels and cotton fabric. Easy removed by hot water and enzyme.
AVCO-SIZE DNF	Anionic	Co, viscose	Recommended for DENIM. Easy removed by hot water and enzyme.
AVCO-SIZE DNL	Anionic	Co	Suitable for towels and cotton fabric. Easy removed by hot water and enzyme.
AVCO-SIZE N	Nonionic	Co, viscose and blends	Designed for Co, T/C yarns. Easy removed only by hot water. Resistant to high humidity. Does not increase viscosity of starch when used in blends.

PRODUCT RECOMMENDATION

PRODUCT	IONICITY	FIBRES	APPLICATION
AVCO-SIZE SPA-50	Anionic	Pe/Co, Pe	Designed for sizing T/C, Polyester yarns. Easy removed by hot water and enzyme.
AVCO-SIZE HWD01	Anionic	Pe/Co, Pe	Designed for sizing T/C, Polyester yarns. Easy removed by hot water and enzyme.

PROPERTIES OF AVCO-SIZE COMPARING WITH CONVENTIONAL SIZES

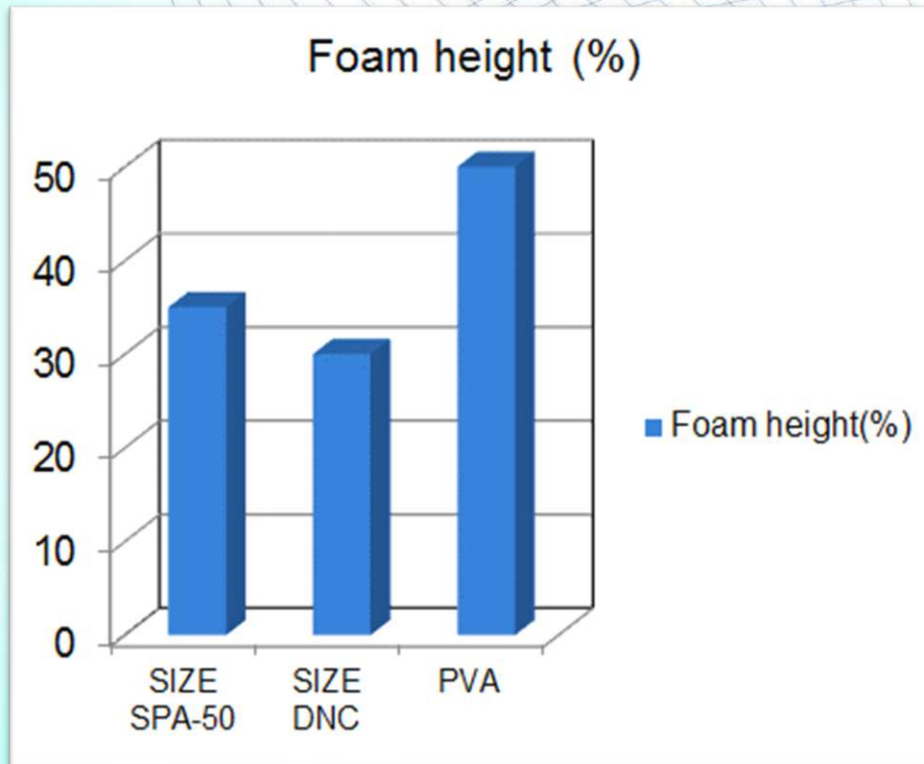
I. TENSILE STRENGTH OF SIZING FILM



AVCO-SIZE film is stronger and tougher than modified Starch and even the blend of modified Starch and PVA

PROPERTIES OF AVCO-SIZE COMPARING WITH CONVENTIONAL SIZES

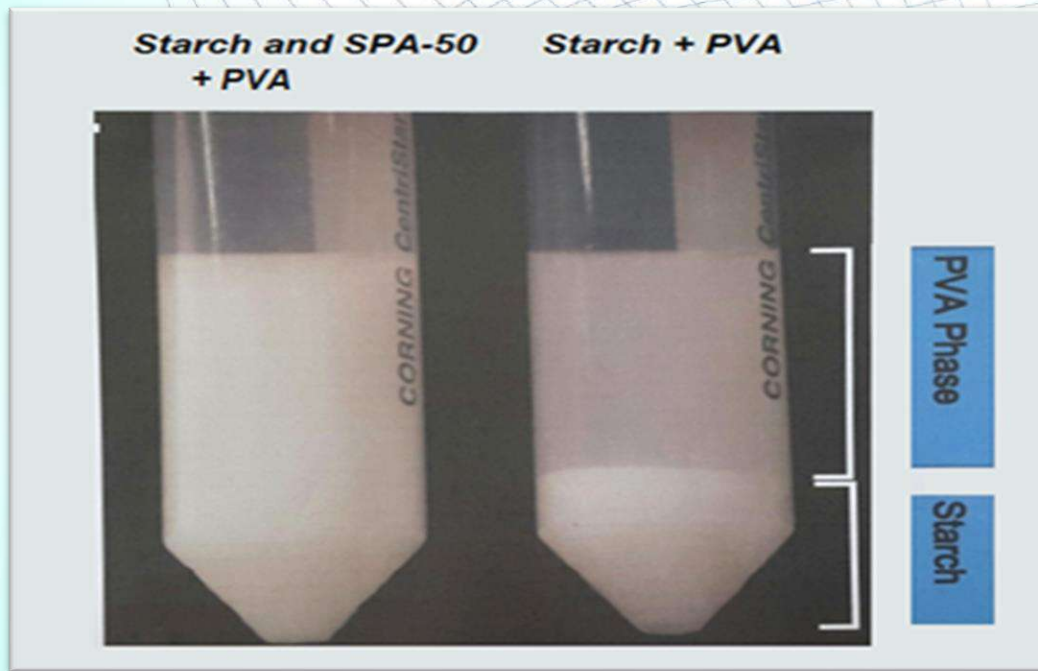
II. FOAMING PROPERTIES



Typical result in 70/30 starch/PVA blend & AVCO-SIZE

PROPERTIES OF AVCO-SIZE COMPARING WITH CONVENTIONAL SIZES

III. STABILITY OF SIZING SOLUTION



Blend of Starch and PVA are susceptible to separate in two phases. Addition of AVCO-SIZE SPA-50 eliminates this problem.

TRIAL REPORT

Trial date	
Company	
Subject	Desizing woven fabric sized with AVCO-SIZE

I. SIZE COOKING

CHEMICALS	CONCENTRATION (%)	
	TEST 1	TEST 2
AVCO-SIZE DNL		7.5
PVA + Starch	10	
Process	Cooking at 90°C x 25'	Cooking at 90°C x 25'
Viscosity (FORD CUP#4)	12 sec	15 sec

II. YARN CONSTRUCTION

Yarn Count	Ne 20
Total Ends	4400
Weaving Construction	65 x 60 / CD20 x CD20

III. WEAVING EFFICIENCY OF AVCO-SIZE TRIAL

Length of loom (meter)	3500
Efficiency (%)	95

TRIAL REPORT

Trial date

Company

Subject

Desizing woven fabric sized with AVCO-SIZE

IV. SIZE COOKING

CHEMICALS

CONCENTRATION (%)

TEST 1

TEST 2

AVCO-BIOLIT OSA 50

3

AVCO-ZIM UND (α -amilase)

4

Process

Padding \rightarrow Batching for 8 hrs \rightarrow Hot wash (2 times) \rightarrow Cold wash

Hot wash (2 times) \rightarrow Cold wash

V. DESIZING RESULT

Test 1

Test 2

TEGEWA (Violet scale)

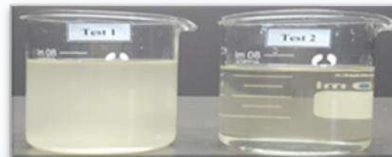
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Weaving construction

65 x 60 / CD20 x CD20

Solution after hot wash



TEGEWA result of desized fabric



The background features a light blue to cyan gradient. On the right, there is a large, stylized, semi-transparent green letter 'A' with a grid pattern. A series of thin, blue, wavy lines flow across the top and right side of the image. In the bottom right corner, there is a pattern of small white dots on a cyan background.

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