

**MAHALIY ANTIPERIN ASOSIDA PAXTA TOLALI
MATOLARGA OLOVBARDOSH XOSSA BERISH**

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Anatatsiya: Ushbu ilmiy tadqiqod ishida mahalliy antiperin asosida paxta tolali matolarga yakuniy pardozi berish jarayoni o'rganilgan va namunalarning olovbardoshlik xossasi tahlili bo'yicha tajriba natijalari keltirilgan.

Аннотация: В данной научной работе изучен процесс окончательной отделки тканей из хлопчатобумажных волокон на основе местного антиперина и представлены экспериментальные результаты анализа огнестойкости образцов.

Abstract: This research paper studies the process of final finishing of cotton fiber fabrics based on a local antiperine and presents experimental results of fire resistance analysis of samples.

To'qimachilik sanoati butun dunyo miqiyosida ishlab chiqarish sohasining eng muhim va serdaromad yo'nalishlaridan biridir. Bu borada maxsus xossalarga ega bo'lgan to'qimachilik materiallari va tayyor maxsulotlarini ishlab chiqarish muhim ahamiyatga ega hisoblanadi. To'qimachilik materiallariga yakuniy pardozi berish to'qimaning tashqi ko'rinishini yaxshilash uchunгина emas, balki matoda mavjud bo'lgan xususiyatlarni yaxshilash hamda yangi xossalarni, jumladan gidrofoblik [1], [3],

antibakterial [2], [4] va olovga chidamlilik xossa berish maqsadida ham amalga oshiriladi.

So'nggi yilliklarda paxta matolarining olovga chidamliligini oshirish bo'yicha tadqiqodlar olib borilmoqda [5], [6]. Ular orasida, pardozlash ishlovi mato yuzalariga olovga chidamli moddalarni bog'lash uchun galogenli asosidagi antiperinlardan foydalanish paxta matolari uchun eng samarali olovga chidamli usul sifatida qaraldi [7], [8], [9]. Biroq, gallogen tarkibli antiperinlar bilan ishlov berilgan matoni muqarrar ravishda ishlatish inson salomatligi uchun xafli. Shuning uchun, ekologik toza va tarkibida gallogen bo'lmagan antiperin moddalari bilan ishlov berilgan olovga chidamli paxta matolariga talab ortmoqda.

Muammolar va vazifalarni hal etishda mamlakatimizda yetishtirilayotgan paxta xom ashyosini to'liq qayta ishlash, mahsulot assortimentini kengaytirish va mahalliyashtirish orqali maxsus xossal mato tayyorlash imkoniyatlarini o'rganish muhim hisoblanadi [4].

Yuqoridagilarni inobadga olgan holda "Kimyo ilmiy tekshirish instituti" olimlari tomonidan taklif etilgan tarkidida gallogen bo'lmagan mahalliy antiperin asosida paxta tolali matolarga olovbardosh xossasi berildi.

Tadqiqod uchun tarkibi 100% paxta tolali mato va mahalliy antiperin olindi. Mahalliy antiperin oq kukunsimon modda bo'lib, suvda eriydi, hidsiz, suvda eriganda och kulrang eritma hosil bo'ladi.

Ushbu antiperin bilan olovbardosh xossa berish texnologiyasi quydagi texnologik ketma ketlik asosida olib borildi.

Shimdirish -> siqish -> qurutish -> termik ishlov

5-daqiqa	70%	10daqiqa	2daqiqa
		90 °C	150 °C

Oqartirilgan paxta tolali matodan 50x200 mm uzunlikdagi namunalar tayyorlandi va 60 °C haroratdagi issiq suvda eritilib tayyorlangan antiperinning

turli konsentratsiyadagi eritmalari bilan olovbardoshlik xossasi berildi. Olingan natijalar quydagi 1-jadvalda keltirilgan.

1-jadval

Olovbardosh xossa berilgan namunalarning ko'rsatkichlari

№	Olovbardoshlik ko'rsatkichlari	Antepiren konsentratsiyasi, %			
		20	10	5	3
1	Olovda ushlab turish vaqti, sekund.	20	20	20	20
2	Yonish balandligi, sm	5,5	4,5	7,8	16
3	Alanganish vaqti, sekund.	0	0	0	10
4	Qoldiq yonish vaqti, sekund.	0	0	0	5

Yuqoridagi jadval natijalariga ko'ra anteperin konsentratsiyasi 20, 10 va 5 % li antiperin eritmasi bilan ishlov berilgan namunalarda olovbardoshlik xossasi yuqori natija ko'rsatdi. Biroq, 20 va 10 % li antiperin eritmasi bilan ishlov berilgan namunalarda mato qotganligi vizual aniqlandi. 5% li anteperin eritmasi bilan ishlov berilgan namunalarda bu holat kuzatilmadi va maxsus kiyimlar uchun mo'ljallangan gost talablariga mos keladi. 3% li eritmada esa yonish balandligi 16 sm ni tashkil etgan va alanganish ham kuzatilgan.

Xulosa: "Kimyo ilmiy tekshirish instituti" olimlari tomonidan taklif etilgan, tarkidida gallogen bo'lmagan mahalliy antiperinning 5% li eritmasi asosida paxta tolali matolarga olovbardosh xossasi berish texnologiyasi maxsus kiyimlar uchun mo'ljallangan mato ishlab chiqarishga taklif etildi.

Foydalanilgan adabiyotlar.

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