

CPD-ONE
冷堆精炼剂 COLD PAD SCOURING AGENT



CPD-ONE 是高分子材料复配物, 适用于全棉织物的冷堆前处理。
本品稳定性非常优越, 直接加双氧水即可, 处理后的织物白度和毛效良好。
产品用途: 用于纺织品的冷堆前处理工艺

CPD-ONE is a polymer material composite with excellent stability.
Suitable for cold pad pre-treatment of all cotton fabrics.
Cold pad process to fabric can be carried simply by padding CPD-ONE and hydrogen peroxide to obtain perfect whiteness and capillarity.

技术应用 Reference dosage

	Hydrogen Peroxide (27.5%)	CPD-ONE	Usage:
半漂工艺 Half Bleaching	50g/L	10-15g/L	开液 → PAD (压力 0.18Mpa) → 常温堆置 12-24 小时 → 喷淋洗水(约65°CX15min 水比 1:10) → 中和水洗 → 染色
全漂工艺 Full bleaching	80-100g/L	15-20g/L	Prepare → PADDING (0.18Mpa) → Stand still 12hours(Atmospheric) → Washing(65°C X15min) → Neutralization → Dyeing

包装与贮存:
25公斤塑料袋包装, 密封贮存, 久置结块, 不影响使用, 保质期12个月
Packaging & storage: Poly bag 25kgs, Sealed for storage,
Does not affect use after long time storage may lumps, Warranty period 12months.

大货生产参考工艺用量
Reference Dosage for bulk production :

500L	深色 DARK SHADE	浅色 LIGHT SHADE	鲜艳色 BRIGHT
Hydrogen Peroxide 27.5%	30KGS	45KGS	55KGS
CPD-ONE	10KGS	12.5KGS	15KGS

适应范围 APPLICATIONS:

CPD适应纯棉、涤棉、锦棉、腈棉、棉麻等织物。
CPD is suitable for knitted fabrics of Cotton, T/C, CVC, Acrylic cotton, Cotton linen etc.

制程 PROCESS

冷轧处理液(助剂+双氧水) → 据布料常温堆置6~12小时以上 → 预洗65°C
→ 水洗 → 中和
Cold-padding (CPD-ONE + hydrogen peroxide) → Stand Still in sealed trolley for 6-12hours → Pre-wash at 65°C → Wash → Neutralization → dyeing

基本性状: 外观—白色颗粒
PH 值—12.5+0.5
离子性—阴离子

Basic Appearance: White -Particles
PH value -12.5+0.5
Ionic trait - Anionic



CPD-ONE
冷堆精炼剂
COLD PAD SCOURING AGENT

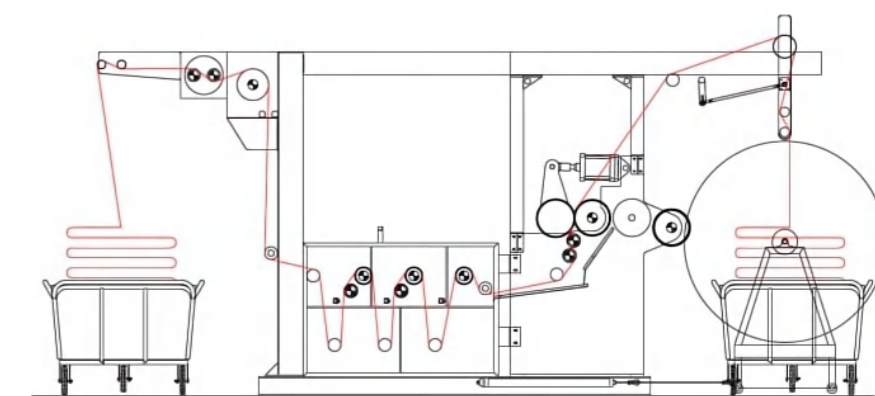
CPD
针织平幅冷堆机
Cold Pad Pretreatment Padding Machine



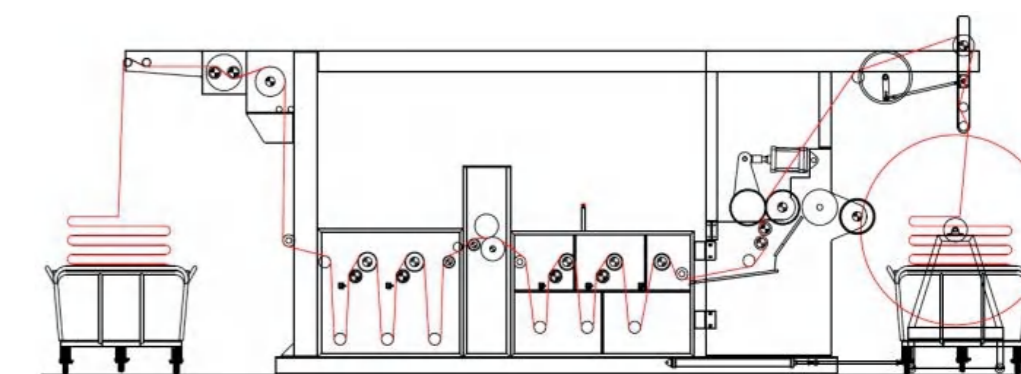
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SCHEMATIC DIAGRAM 流程图

CPD-2300A



CPD-2300B



科目 subject	传统前处理工艺 Traditional pre-treatment technology		冷堆前处理工艺 Cold-pad pre-treatment technology	
	每吨布耗量 Consumption per Cost	成本价(RMB) ton of fabric	每吨布耗量 Consumption per Cost	成本价(RMB) ton of fabric
工艺 Technology	根据工厂工艺不同 Different technology according to factory		1.27.5%双氧水80kg 27.5%per-oxide80 kg 2.冷堆助剂20kg Dedicated chemical 20 3.水洗温度65-85°C Washing temperature 65-85 degree C	
助剂成本 Cost of chemical		250		330
耗水量6.5元/吨 Water consumption 6.5 RMB /ton	18吨 (tons)	117	4.2吨 (tons)	27
耗电量 1元/度 Power consumptio 1RMB / KW	50KW*2h	100	37KW*1.6h	59
蒸汽190元/吨 Steam 190 RMB /ton	1.41吨 (tons)	268	0.5吨 (tons)	95
总计(元/吨布) Total(RMB/ton of fabric)	735		511	

TEXLINKENGINEERINGCO.,LTD.
惠州泰纶纺织机械有限公司
中国·广东省惠州市博罗县园洲镇禾山工业区
Texlink IndustrialPark,HeShanVillage,YuanZhouTown,
BoLuoCounty,Huizhou516123,P.R.China
Tel:86-752-6650928 Fax:+86-752-6650298
E-mail:sales@texlinkmachine.com

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CPD-2300A 单槽针织平幅冷堆机

Cold Pad Pretreatment Padding Machine (Single Chamber)



加热方式: Heating mode:	车别: Service Tank Distribution	总功率: Installed Power	设备门幅: Working Width	设计车速: Designed speed
蒸汽热交换 Steam Heating	左/右手车 L / R Hand Side	21kw	2300mm	50m/min
蒸汽压力: Steam Pressure	压缩空气: Compressed Air	电源电压: Voltage	外形尺寸(长*宽*高) Overall Dimension (L*W*H)	
0.4Mpa	0.4Mpa	AC380V50Hz	5800mm*3000mm*3000mm	

CPD-2300B 双槽针织平幅冷堆机

Cold Pad Pre-Treatment Padding Machine (Double Chambers)



加热方式: Heating mode:	车别: Service Tank Distribution	总功率: Installed Power	设备门幅: Working Width	设计车速: Designed speed
蒸汽热交换 Steam Heating	左/右手车 L / R Hand Side	22.5kw	2300mm	50m/min
蒸汽压力: Steam Pressure	压缩空气: Compressed Air	电源电压: Voltage	外形尺寸(长*宽*高) Overall Dimension (L*W*H)	
0.4Mpa	0.4Mpa	AC380V50Hz	7200mm*3000mm*3000mm	

背景 BACKGROUND

CPD is new technology for Pre-treatment of cotton Knitted fabric. Instead of rope form treatment in dyeing machine, fabric can be treated in open width by padding scouring agent + H₂O₂ continuously, then plaiting in the trolley (or rolling to A-Frame), fabric stand still 8-12hours in atmospheric and sealed condition.

CPD can greatly reduce cost of cotton fabric pre-treatment simultanously improve efficiency of dyeing machines. Since it is open width padding treatment, the fabric if flatter and crease-free.

针织布冷轧堆前处理项目从工艺、设备、助剂等方面做了系统性研究,实现了针织布连续化平幅前处理。克服了堆置时的压痕、折痕等问题,改变了传统机缸匹差的历史;消除了堆置物上下、内外白度差和不均匀性;简化了传统复杂繁琐的操作程序;

摆脱了工艺和化学品对操作者的不安全因素;打破了传统冷堆工艺对设备、助剂、温度、时间和方法的苛刻要求;解决了针织物前处理冷轧堆易产生褶皱和均匀性的两大瓶颈,其白度效果达到传统双氧水漂白工艺水平。



优势 ADVANTAGE

1. 缩短了缸内时间,在现有缸量不变的情况下,产能大大提高,综合成本相对降低。
2. 节约用水用量约2/3、节约蒸汽约80%。
3. 布重损耗小,强力值提高,减少传统染缸中出现色花、批差、折皱等。
4. 天然蓬松、厚实、柔软、布面光洁、色泽柔和丰满等优势。
1. Reducing time of dyeing machine process, increase dyeing capacity without adding dyeing machines.
2. Water consumption of pre-treatment saving up to 60%, steam consumption saving up to 80%
3. Weight reduction of fabric are greatly reduced, Strength of fibers are increased, uneven dyeing, batch difference and crease marks are greatly reduced.
4. Fabric hand feel are greatly improved like bulky, soft, smooth, etc.

技术特点 CHARACTERISTICS



- 1, 织物平幅带液,处理液均匀渗透。
- 2, 作用柔和均匀避免产生批间质量差异
- 3, 化学反应可控精练过程缓和、均匀透彻,对纤维损伤小,各点毛效均一。
- 4, 全过程低张力,布手感更好
- 5, 织物损耗少,节能减排效果好。

- 1, Open width continuous treatment for better penetration of chemicals.
- 2, Soft chemical reaction to avoid uneven treatment to fabric.
- 3, Chemical reaction are under control, minimized harm to the fiber and average capillarity is maintained proper.
- 4, Tensionless process for better hand feel.
- 5, Weight reducing of fabric are minimized, water and power saving compare with traditional pre-treatment in dyeing machine.