

# 省水清洗剂RY-319A在涤或涤棉织物上的应用

何建永<sup>1</sup>, 夏继平<sup>2</sup>, 程龙瑶<sup>1</sup>, 雷梅根<sup>2</sup>

[1.宁波海达针织印染有限公司,浙江 宁波 315708;

2.瑞鹰(中国)科技新材料发展有限公司,福建 石狮 362700]

**摘要:**涤或涤棉混纺针织物染色后传统还原清洗使用保险粉、烧碱,工艺耗时长、成本高、用水量大,排放的残液中COD值含量高。文中采用省水清洗剂RY-319A,对涤纶或涤棉混纺针织物进行还原清洗。探讨了省水清洗剂RY-319A对织物色光、染色牢度、残液COD值的影响,并与传统保险粉、烧碱工艺对比。结果表明,省水清洗剂RY-319A还原清洗工艺对涤纶或涤棉混纺针织物处理后色光及色差值与传统工艺基本一致,布面质量达到了工艺规定的要求,降低了残液中的COD值排放,可以取代保险粉、烧碱。

**关键词:**涤纶;针织物;省水清洗剂RY-319A;还原清洗;色光;染色牢度;残液COD值

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## Application of Water-saving Cleaning Agent RY-319A on Polyester Knitted Fabric

He Jianyong<sup>1</sup>, Xia Jiping<sup>2</sup>, Cheng Longyao<sup>1</sup>, Lei Meigen<sup>2</sup>

[1.Ningbo Haida Knitting and Dyeing Co., Ltd., Ningbo, Zhejiang 315708, China;

2.Ruiying (China) Technology New Material Development Co., Ltd., Shishi, Fujian 362700, China]

**Abstract:** Sodium hydrosulfite and caustic soda is used in traditional reductive cleaning after dyeing process, the process takes a long time, has high cost and large water consumption, and the COD content in the residual liquid is high. In this paper, the water-saving cleaning agent RY-319A used to reductive cleaning the polyester or polyester-cotton blended knitted fabrics. The effects of the water-saving water cleaning agent RY-319A on the color light, dyeing fastness and COD value of the polyester or polyester-cotton blended knitwear was discussed, and compared with the traditional sodium hydrosulfite and caustic soda process. The results show that the color and color difference of the treated of polyester or polyester-cotton blended knitwear are basically the same as that treated with sodium hydrosulfite and caustic soda. The quality of the cloth has reached the requirements of the process regulation, reducing the COD value emission in the residual liquid, and can replace the sodium hydrosulfite and caustic soda.

**Key words:**Polyester; Knitted Fabric; Water-saving Cleaning Agent RY-319A; Reductive Cleaning; Color Light; Dyeing Fastness; Residual Liquid COD Value

传统涤纶或涤棉织物中、深色用保险粉和烧碱进行还原清洗,该方法工艺耗时长<sup>[1-2]</sup>、成本高<sup>[3-4]</sup>、用水量大、残液的COD值高<sup>[5-6]</sup>。省水

清洗剂RY-319A适用于中性条件下对涤纶织物以及弱酸性条件下对涤棉混纺织物的清洗,是1支环保型的清洗剂,在染色结束后不必

排放染液,可以直接加入染色残液中进行还原清洗。清洗完成后的残液还可以进行回收,再做续缸而不影响织物的色光、得色率和色牢

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**作者简介:**何建永(1985—),男,总经理助理,技术部经理。主要从事染整生产技术和新产品开发工作。







