

得的输送带其耐热纤维层与氟塑料之间不粘合,形成的炭氟膜是在(A)层(用 PTFE 浸渍的耐热芳纶布)和(B)层(用 PTFE 浸渍的芳纶混纺布)之间,每层厚 0.5 mm,然后在 193℃/0.98 MPa 条件下层压,即得到这种耐热层压输送带。

4 结语

通过对国外部分专利的介绍,从中可了解到国外对耐热输送带的研究十分活跃。为增强耐热输送带的功能性和实用性,国外研究者选择了新型橡胶品种,开发出多种橡胶助剂,从配方、工艺上进行了多方面的改进,取得了较好的效果,可供国内参考借鉴。

参考文献:

[1] Azuma A. Adhesion of EPDM rubber compositions to fibrous materials and heat-resistant conveyor belts therefrom[P]. JPN: JP 09 216954. 1997-08-19.

[2] Bando Chemical Industries Ltd. Heat-resistant conveyor belts [P]. JPN: JP 58 89506. 1983-05-27.

[3] Hamano N. Heat-resistant conveyor belts [P]. JPN: JP 09 30624. 1997-02-04.

[4] Shioyama T. Neoprene adhesives for canvas in conveyor belts [P]. JPN: JP 02 286228. 1990-11-26.

[5] Azuma A. Adhesive rubber compositions and conveyor belts with good heat resistance and adhesion with steel cords[P]. JPN: JP 2000 01570. 2000-01-07.

[6] Okamoto H, Hirase K. Heat-resistant conveyor belts[P]. JPN: JP 60 137645. 1985-07-22.

[7] Bhaumik T K, Bhowmick A K, Gupta B R, *et al.* Develop-

ment of cover compound and determination of grade of a heat-resistant conveyor belt[J]. Research Industry, 1989, 34 (3): 179-182.

[8] Sarkar P P, Ghosh S K, Gupta B R, *et al.* Studies on adhesion between rubber and fabric and rubber and rubber in heat resistant conveyor belt[J]. International Journal Adhesives, 1989, 9(1): 26-32.

[9] Ananov N V, Golovin P D, Svetlichnyi I F. Tests of heat-resistant conveyor belts for conveying of hot coke[J]. Koks. Khimicheskoe, 1985(1): 36-37.

[10] Datta R, Talma A, Steenberg A, *et al.* Sulfur-vulcanized rubber compositions using substituted succinimide antireversion compounds[P]. PCT Int Appl, WO 96 20246. 1996-04-04.

[11] Schwann A, Baumgart T, Olak W. Heat-resistant rubber textile conveyor belt[P]. PO L: PL 151922. 1990-10-31.

[12] Rennebeck K. Process for manufacturing ceramic fibers from the melt and the ceramic fibers obtained and their uses[P]. GER: DE 19 730 996. 1999-01-21.

[13] Oyama M, Kubo Y, Honda T. Fiber-reinforced rubber belts [P]. FR: FR 2 532 245. 1984-03-02

[14] Anon. A new polymeric composition for heat resistant conveyor belt[J]. Research Discl., 1998, 415(5): 1 492-1 494.

[15] Dushi A. Chlorobutyl rubber for the production of heat-resistant conveyor belts[J]. Hem. Industry, 1980, 34(5): 130-133.

[16] Hoover J W, Wheeler M E, Fusco J V, *et al.* Composition of fatty acid and starch for improved tear resistance of rubbers [P]. USA: US 5 650 454. 1997-07-22.

[17] Vries L F. Developing heat-resistant conveyor belts[J]. Rubber World, 1995, 213(3): 39-42.

[18] Kitagawa S, Ishibashi M, Haraguchi T, *et al.* Heat-resistant laminated conveyor belt [P]. CAN: Pat. Appl, CA 2 124 659. 1995-12-01.

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万吨级油/气路线新工艺
炭黑项目通过鉴定

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中橡集团炭黑工业研究设计院承担的万吨级油/气路线新工艺炭黑技术开发项目最近通过鉴定。

专家认为,万吨级油/气路线新工艺炭黑技术开发项目采用的新型炭黑反应炉和燃烧器能适应不同的燃烧模型,可调范围大,在不同燃烧负荷下,均能稳定燃烧,运行情况良好。炭黑反应炉耐火材料完全能适用于 1 930℃的高温模

型,能有效延长反应炉寿命。万吨级油/气装置可用全煤焦油生产炭黑,在原料油品应用上达到设计要求,产品质量及综合技术指标均优于油/油路线,尤其是炭黑产品的纯净度显著提高。该装置首次采用新型高效袋滤器、湿法造粒、吸尘系统和自动包装系统,炭黑尾气用于尾气锅炉和干燥机作燃料,既节能降耗,又有利于环境治理。万吨级油/气路线新工艺炭黑生产硬件和软件技术先进,总体水平达到了 20 世纪 90 年代国际水平。

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