

致谢：扬州中德输送工程有限公司毛秋工程师、武汉鑫瑞德化工有限公司刘晶晶工程师和上海

洛德化学有限公司秦国忠工程师对本文的撰写提供了帮助，在此一并致谢。

Bonding Process of Metal Core in Rubber Track and Analysis on Adhesion Failure



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Abstract: This paper introduces the bonding process of the metal core in rubber track and the adhesion failure was analyzed. In the first step of the bonding process, the metal core was inspected, including visual inspection, dimension, bending strength and hardness. Then the metal core was treated by sandblasting, degreasing and phosphating. In the second step, the primer and adhesive were applied. The process could be brushing, manual dipping, automatic dipping, manual spraying or automatic spraying. Then rubber track was bonded to metal core and the rubber track was vulcanized. To effectively minimize the adhesion failure, it was recommended to use suitable adhesive, rubber compound formulation, sandblasting process, adhesive application process and vulcanization process.

Keywords: metal core; rubber track; adhesion; adhesive; sandblasting; adhesion failure



信息·资讯

科伦比恩济宁基地24万t炭黑项目奠基

日前，由印度博拉炭黑公司、济宁炭素集团以及国际金融公司（IFC）三方合资建设的科伦比恩（济宁）化学公司年产24万t炭黑项目举行了奠基仪式。该项目建在山东省济宁化工产业园区内，与济宁炭素集团现有的煤焦油蒸馏工厂毗邻。该项目所用的绝大部分原料油直接由济宁炭素集团煤焦油蒸馏工厂通过管线供应。

该项目总投资为2.95亿美元，工程分2期建设，一期工程投资1.65亿美元，建设年产12万t炭黑装置，预计于2016年中期投产；二期工程投资1.30亿美元，建设年产12万t炭黑装置，计划在一期工程投产之后的2~3年内建设。

目前，印度博拉炭黑公司在华设有2家生产基地，分别建在辽宁省大石桥和山东省潍坊，炭黑总产能约为10万t。

郭集奎