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中国石油工程建设有限公司西南分公司天然气提氮技术

氮气是国防军工和高科技产业发展不可或缺的稀有战略性物资之一, 广泛应用于军工、科研、石化、制冷、医疗、半导体、超导实验、深海潜水、光电子产品生产等领域。我国属于贫氮国家, 天然气氮气资源总量少, 含量低。目前我国氮气自给率低, 氮气供应长期依赖进口。从天然气中提氮对中国石油保障国内氮气供应量, 扩大能源领域, 保证国家能源安全具有重要的战略意义。

在天然气提氮技术领域, 中国石油工程建设有限公司西南分公司拥有天然气低温提氮和膜分离提氮技术, 氮气回收率可高达 96% 以上, 氮气产品纯度达 99.999%; 拥有《天然气低温提氮系统及方法》《一种天然气中回收乙烷联产粗氮的装置及方法》《一种天然气中洗涤烃类提取氮气的回收装置及方法》等提氮发明专利 6 项; 设计了我国国内唯一的天然气提氮工厂——荣县提氮厂。

(李莹珂 供稿)