Study on mineral processing technology of a copper-iron ore

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Abstract：A certain copper-iron ore，containing 44.23% Fe and 0.24% Cu，is processed by the adoption of the technology of low-intensity magnetic separation—high-intensity magnetic separation—flotation—gravity concentration. The test results are as follows：the grade of a qualified iron concentrate is 60.12% with the recovery of 78.52% and the grade of a qualified copper concentrate is 22.13% with the recovery of 59.37%.

Key words：iron ore；copper mineral；magnetic separation；flotation；gravity concentration
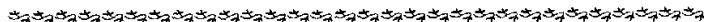
雷尼镍催化剂

　　雷尼镍催化剂活性好,具有发达的蜂窝结构,比表面积高达 100m²/g,而且机械强度高,可重复使用多次,主要应用于有机合成工业加氢、脱氢反应中.在山梨醇、甲乙酮、脂肪胺、双氧水、香料、己内酰胺、己二胺等产品生产中以及制药中间体、众多精细化工产品生产中有着广泛的应用.

　　广州有色金属研究院已开发并建成年产 100 t 雷尼镍催化剂的生产线.主要有 Ni−Al,Ni−Al−Mo,Ni−Al−Cr−Fe 等系列产品.其中 Ni−Al−Mo 系列产品在山梨醇生产中应用具有活性高、使用寿命长、抗毒能力强等特点;在脂肪腈加氢生产脂肪伯胺中具有优异的选择性,产品中部分胺值小于 1%,综合性能达到国际先进、国内领先水平.