RECYCLING OF BAG-HOUSE DUST FROM FOUNDRY SAND THROUGH CHEMICAL AND PHYSICAL BENEFICIATION

• Project Goal: Recycle dust from foundry sand
• Objectives:
  • Characterization- what is useful what is not
  • Liberation and Separation
  • Application- what to do with products

Variables and ranges studied:
Reagent quantity: 150-500g/t
Slurry solids concentration: 4-8wt%
Attrition duration: 5-15 minutes
Dispersant used

• Applications for Hydrocyclone products
  • Assess mold characteristics with recycled material
  • New applications investigation for silica fines
    • Cement, Glass, Ceramics