

hrl:

Briquetting and sintering

A HRL case study



expertise in action



HRL enhances productivity and cuts losses with improved production stream

HRL was able to investigate a variety of milling, mixing and agglomeration options to identify the best technology and approach.

Challenge

A client was developing a new process and needed to agglomerate and sinter the feedstock to meet downstream processing requirements. The requirements for effective milling, mixing, agglomeration and sintering needed to be investigated to allow a suitable sintered product to be produced.

Results

HRL was able to investigate a variety of milling, mixing and agglomeration options to identify the best technology and approach. This investigation resulted in the production of suitable samples for feed to a sintering process. The sintered samples met the client's requirements and allowed the process to be developed further.

Solution

HRL trialled a variety of technologies to achieve suitable size reduction of the feedstocks, using particle size analysis to measure the effectiveness of each approach. From this investigation a procedure was developed which allowed the feedstocks to be suitably mixed for further processing.

Once milled and mixed, the materials needed to be agglomerated to reduce losses during the sintering process. Small scale agglomeration trials were performed to assess the impact of briquetting parameters on agglomerate strength. The agglomeration trials produced briquettes with suitable strength for sintering.

For further information
Call +613 9565 9888
or visit **hrl.com.au**

Level One Unit 4
677 Springvale Road
Mulgrave VIC 3170

Phone +613 9565 9888
Fax +613 9565 9879
info@hrl.com.au