

THE REFINING OF GROUND-WOOD SCREENINGS IN THE ROD MILL

By
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The ground-wood screenings received from a large newsprint paper company were run through the Forest Products Laboratory experimental rod mill. One hundred and thirty-eight pounds of screenings were run through once in about 3 hours. One and one-half hours more were used in running about half of the amount through a second time. The mill ran at about 30 r.p.m. and consumed 12-1/2 horsepower. The stock was fed so that it came from the mill at a consistency of from 12 to 15 per cent. Once through the mill created a stock ground somewhat more than insulite; twice through the mill gave a stock ground almost as fine as the pulp used in making Cornell wall board; three times through the mill would probably have yielded a pulp similar to news-grade ground wood. The stock run through the rod mill once was loaded into a Marx beater and beaten at a light brush for 4-3/4 hours. Enough sulphite was then added to equal 20 per cent of the total furnish and the paper run over the paper machine. The paper was not equal to standard news in quality but a fairly satisfactory sheet was obtained.

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Once through
rod mill

M19243F



Twice through
rod mill



Milled and beaten
(Newsprint)

Groundwood Screening Materials