

**JOHNS-MANVILLE RESEARCH
AND ENGINEERING CENTER**

MVJ R & D 1990

Report No. 431-T-188

Date December 31, 1962

Title: MATERIAL FROM WALLS OF MOLD CAVITIES AT ZELIENOPLE - Identification

Requested by: S. E. Wooley (IID-1412 - completed, MSR No. Z-87)

SUMMARY

A. C. Smith
JAN 31 1963

A sample of material which accumulated on the walls of the mold cavities during production of JM-20 and JM-23 IFB at Zelenople plant was submitted to the Analytical Laboratory for identification. After a build-up period of several days, the material finally broke off during stripping of the molds and caused cracking of the brick.

X-ray and spectrographic examination of the submitted material indicates that it is mainly gypsum, $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$. Small amounts of plaster of paris, $2\text{CaSO}_4 \cdot \text{H}_2\text{O}$ and kaolin, $\text{Al}_2\text{O}_3 \cdot 2\text{SiO}_2 \cdot 2\text{H}_2\text{O}$, are also present.

Sample Identification No. NB-772-129A.

Research Tag No. Z-584.

Laboratory Index No. A81-138-1.

Contents: Summary only.

Approved by

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X-ray by

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