

FILE NAME: Owens Corning (OC)

DATE: 0000

DOC#: OC188

DOCUMENT DESCRIPTION: Internal Report Covering 1943-1965 Efforts to Reduce Use of Asbestos In Insulation

HISTORY-REDUCTION OR ELIMINATION OF
ASBESTOS IN HIGH TEMP INSULATION

- 1943-47 OI/OCF Coop Program to Develop Glass Wool Fiber for
Kaylo Reinforcement
- 1959 MARKETING Requested Research to Develop Bonded Aggregate
Product Like Careytemp
- 1960-61 RESEARCH Develop a Bonded Aggregate High Temp Insulation
- 1961-62 RESEARCH-PROCESS ENG. Develop a Glass Reinforcement
for Kaylo
- 1962 RESEARCH-UCM Develop Bonded Aggregate Product Based on UCM
Binder System
- 1962-63 PROCESS ENG.-R & R Develop Bonded Aggregate Product
Based on R & R Binder System
- 1962-66 RESEARCH-PRODUCT DEV. Develop High Temp Glass Fiber
Insulation (Multitemp)
- 1965 RESEARCH Proposed Program to Develop a Proprietary Bonded
Aggregate High Temp Insulation - Program Not Approved
- 1965 RESEARCH Program to Replace Amosite Asbestos With Cotton
Reinforcement

POSSIBLE APPROACHES FOR ELIMINATING
ASBESTOS FROM HIGH TEMP INSULATIONS

KAYLO

Replace Asbestos in Kaylo with Glass and/or Rockwool Fibers

FIBROUS GLASS

Develop a One Step Process for Manufacture of High Temp
Glass Fiber Insulation

BONDED AGGREGATE

1. Develop a Proprietary, Non-Autoclaved, Bonded Aggregate
Insulation Product Reinforced with Glass Fibers
2. License Carey-Temp Process

FOAM

Develop a Structural, Inorganic High Temp Foamed Insulation

WET PROCESS

Develop a Rockwool and/or Glass Reinforced, Non-Autoclaved
Insulation by the Wet Process Method

KAYLO RESEARCH & DEVELOPMENT

Marketing Div. - 61

Sponsor - J. F. Vyverberg

STATUS

1. Developed Stress Corrosion K-10 Kaylo Batch Formulation
 - A. Lab Prepared Samples Passed duPont 6 Day Survival Test
2. Cost Projection on Stress Corrosion Batch
 - A. Gross Margins Will Be Reduced 0.7% If Product Marketed as "Special" and 0.1% If Extended to All K-10 Production
3. Plant Trial
 - A. Identify Process Problems Related to Scale Up of Batch from Laboratory to Plant

PLANS

1. Optimize Stress Corrosion Batch to Eliminate Problems Encountered in Scale Up from Lab to Plant
2. Full Scale Plant Runs on Both Pipe and Block for duPont Sampling and for Test Marketing
3. Obtain duPont Approval of Plant Poured Stress Corrosion Batch Formulation
4. Coordinate with Marketing Test Market Program on Stress Corrosion Inhibited Kaylo

PROCESS EQUIPMENT REQUIREMENTS

Melting, Grinding, Conveying and Storage Equipment for Manufacture of Silicated Glass, '901' Being Prepared by Manufacturing

NEW PRODUCTS FOR "67"

1. K10 Pipe and Block for Stainless Steel Applications
2. Ceramic Drying Pallets (U.S. Patent 3,276,094)