

PLAINTIFF'S  
EXHIBIT  
AL-1312

31-May-1985  
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REFRACTORY 2 INSULATION INVENTORY  
MASTER AGREEMENT MATERIALS

| MANUFACTURER<br>*****   | CONF. MID#<br>***** | TRADENAME<br>*****              | COMPONENTS<br>*****                                                                                                               | CAS NO.<br>*****                                                                  | PERCENT<br>*****                                       |
|-------------------------|---------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| MANVILLE PRODUCTS CORP. | N R050              | MAKINITE C                      | CALCIUM SILICATE MATRIX<br>CALCIUM SILICATE REINFORCING FIBER<br>NATURAL ORGANIC FIBER<br>FIBROUS GLASS<br>REFRACTORY GLASS FIBER | 1344-95-2<br>10101-39-0<br>65997-17-3<br>65997-17-3<br>65997-17-3                 | 50.0<br>40.0<br>4-6<br>100                             |
| MANVILLE PRODUCTS CORP. | N R057              | CERABLANKET                     | CERACHROME REFRACTORY FIBER<br>ALUMINA<br>ALUMINA SILICATE<br>CALCIUM ALUMINATE<br>INORGANIC FILLER                               | 65997-17-3<br>1344-28-1<br>1327-36-2<br>12042-68-1<br>1332-58-7                   | 25-30<br>25-30<br>10-15<br>10-15<br>15.0               |
| MANVILLE PRODUCTS CORP. | N R056              | 375 CEMENT                      | PORTLAND CEMENT<br>MINERAL WOOL<br>CLAY<br>NATURAL DIATOMACEOUS EARTH                                                             | 65997-15-1<br>65997-17-3<br>1302-78-9<br>7631-86-9                                | 20.0<br>25.0<br>40.0<br>15.0                           |
| MANVILLE PRODUCTS CORP. | N R060              | CERAFORM CUSTOM MOLDED PRODUCTS | REFRACTORY GLASS FIBER<br>COLLOIDAL SILICA<br>CLAY<br>STARCH<br>MINERAL WOOL OR INERT FILLERS                                     | 65997-17-3<br>7631-86-9<br>1302-78-9<br>9005-25-8<br>-                            | 45-80<br>5-30<br>5-25<br>3-6<br>0-30                   |
| MANVILLE PRODUCTS CORP. | N R052              | SUPEREX 1600                    | CALCIUM SILICATE<br>GLASS FIBER<br>ORGANIC FIBER                                                                                  | 1344-95-2<br>65997-17-3<br>-                                                      | 95.0<br>3.0<br>2.0                                     |
| MANVILLE PRODUCTS CORP. | N R061              | TRANSITE                        | CHRYSOITILE ASBESTOS FIBER<br>PORTLAND CEMENT                                                                                     | 1332-21-4<br>65997-15-1                                                           | 40.0<br>60.0                                           |
| MANVILLE PRODUCTS CORP. | N R053              | INSULATING FIRE BRICK           | MULLITE<br>CORUNDUM<br>ANTHRACITE                                                                                                 | 1302-76-7<br>1302-74-5<br>-                                                       | 70-90<br>70-90<br>70-90                                |
| MANVILLE PRODUCTS CORP. | N R054              | 460 CEMENT                      | MINERAL WOOL<br>CLAY<br>PYROPHYLITE<br>NATURAL DIATOMACEOUS EARTH                                                                 | 65997-17-3<br>1302-78-9<br>7631-86-9<br>-                                         | 55.0<br>25.0<br>10.0<br>10.0                           |
| FLITRICO COMPANY        | N R094              | FLICAST LWI 26                  | ALUMINA<br>SILICA<br>IRON OXIDE<br>TITANIUM OXIDE<br>CALCIUM OXIDE<br>MAGNESIUM OXIDE<br>ALKALIES                                 | 1344-28-1<br>60676-86-0<br>1309-37-1<br>13463-67-7<br>1305-78-8<br>1309-48-4<br>- | 51.34<br>36.85<br>0.95<br>1.32<br>7.13<br>0.33<br>1.32 |

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| MANUFACTURER                 | CONF. MID# | TRADENAME                   | COMPONENTS                                                                                                                       | CAS NO.                                                                                                                                 | PERCENT                                            |
|------------------------------|------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| GENERAL REFRACTORIES CO      | N R046     | LITECAST 45                 | PERLITE<br>PYROPHYLITE<br>QUARTZ<br>CALCIUM ALUMINATE                                                                            | 14808-60-7 13<br>12042-68-1 10                                                                                                          | 20<br>15<br>13<br>10                               |
| GENERAL REFRACTORIES CO      | N R047     | LITECAST 50-25              | PERLITE<br>CALCIUM ALUMINATE<br>QUARTZ<br>CALCIUM<br>DICALCIUM ALUMINUM SILICATE<br>KYANITE                                      | 12042-68-1 15<br>14808-60-7 12<br>7440-70-2 8<br>12252-33-4 8<br>1302-76-7 32                                                           | 18<br>15<br>12<br>8<br>32                          |
| GENERAL REFRACTORIES CO      | N R048     | ALSTOP LIGHTWEIGHT CASTABLE | KYANITE<br>GLASS<br>ALUMINA<br>QUARTZ                                                                                            | 1302-76-7 30<br>1344-28-1 12<br>14808-60-7 16                                                                                           | 30<br>20<br>12<br>16                               |
| COMBUSTION ENGINEERING, INC. | N R096     | 85 RAM H.S. PLASTIC         | ALUMINA<br>TOTAL SILICA<br>FERRIC OXIDE<br>TITANIUM OXIDE<br>MAGNESIUM<br>CALCIUM OXIDE<br>PHOSPHORIC ACID<br>ALKALIES<br>QUARTZ | 1344-28-1 86<br>60676-86-0 4.6<br>1309-37-1 9<br>13463-67-7 2.1<br>7439-95-4 1<br>1305-78-8 1<br>7664-38-2 3.4<br>- 0.7<br>14808-60-7 1 | 86<br>4.6<br>9<br>2.1<br>1<br>1<br>3.4<br>0.7<br>1 |
| COMBUSTION ENGINEERING, INC. | N R097     | SUPER #3000 MORTAR          | ALUMINA<br>TOTAL SILICA<br>FERRIC OXIDE<br>ALKALIES<br>QUARTZ<br>ETHYLENE GLYCOL                                                 | 1344-28-1 52.2<br>60676-86-0 44<br>1309-37-1 12<br>- 3.6<br>14808-60-7 1<br>107-21-1 1                                                  | 52.2<br>44<br>12<br>3.6<br>1<br>1                  |
| MANVILLE PRODUCTS CORP.      | N R059     | CERACHROME                  | REFRACTORY GLASS FIBER<br>PHENOLIC RESIN (CURED)                                                                                 | 65997-17-3 91-90<br>25104-55-6 2-9                                                                                                      | 91-90<br>2-9                                       |
| MANVILLE PRODUCTS CORP.      | N R049     | MOLTEN METAL MARINITE       | AMOSITE ASBESTOS FIBER<br>CALCIUM SILICATE                                                                                       | 1332-21-4 40.0<br>1344-95-2 60.0                                                                                                        | 40.0<br>60.0                                       |
| MANVILLE PRODUCTS CORP.      | N R051     | SUPEREX 2000                | CALCIUM SILICATE<br>DIATOMACEOUS EARTH<br>CLAY<br>REINFORCING FIBER                                                              | 1344-95-2 15.0<br>60676-86-0 73.0<br>1302-78-9 10.0<br>- 2.0                                                                            | 15.0<br>73.0<br>10.0<br>2.0                        |
| MANVILLE PRODUCTS CORP.      | N R058     | CERAFELT                    | REFRACTORY GLASS FIBER<br>PHENOLIC RESIN (CURED)                                                                                 | 65997-17-3 91-90<br>25104-55-6 2-9                                                                                                      | 91-90<br>2-9                                       |

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| MANUFACTURER<br>-----   | CONF. MID#<br>----- | TRADENAME<br>----- | COMPONENTS<br>-----                                                                                                                                | CAS NO.<br>-----                                                                                   | PERCENT<br>-----                                              |
|-------------------------|---------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| A.P. GREEN REFRACTORIES | Y R033              | GREENBLON 60-P     | CORUNDUM<br>MULLITE<br>QUARTZ<br>GLASS                                                                                                             | 1302-74-5<br>1302-76-7<br>14808-60-7<br>-                                                          | 5-15<br>63-77<br>0-3<br>5-15                                  |
| A.P. GREEN REFRACTORIES | Y R044              | SK-7               | ✓ VERRICULITE<br>FIREBRICK GROG<br>PORTLAND CEMENT<br>GRAPHITE<br>DIATOMACEOUS EARTH                                                               | 1318-00-9<br>-<br>65997-15-1<br>7782-42-5<br>60876-86-0                                            | 10-20<br>30-40<br>40-50<br>3-10<br>1-6                        |
| A.P. GREEN REFRACTORIES | Y R043              | HIZZOU CASTABLE    | CALCINED KAOLIN<br>CALCINED BAUXITE<br>RAW KYANITE<br>REFRACTORY CEMENT                                                                            | 1332-58-7<br>66402-68-4<br>1302-76-7<br>-                                                          | 50-60<br>20-30<br>8-16<br>10-20                               |
| A.P. GREEN REFRACTORIES | Y R032              | GREEN-X            | CALCINED FLINT CLAY OR NAOLIN<br>CLAY<br>RAW KYANITE<br>WATER<br>AMORPHOUS SILICA<br>LIGNOSULFONATE LIQUID BINDER<br>GRAPHITE<br>ALUMINUM SULPHATE | 66402-68-4<br>1302-78-9<br>1302-76-7<br>7732-18-5<br>7732-18-5<br>7631-86-9<br>-<br>7782-42-5<br>- | 55-67<br>22-32<br>6-16<br>8-12<br>1-5<br>0.5-3<br>6-16<br>1-7 |
| A.P. GREEN REFRACTORIES | Y R031              | GREENCOTE          | FIREBRICK GROG<br>CALCINED FLINT CLAY<br>AMORPHOUS SILICA<br>RAW KYANITE<br>CLAY<br>ALUMINUM SULFATE<br>DEXTRINE                                   | -<br>66402-68-4<br>7631-86-9<br>1302-76-7<br>1302-78-9<br>10043-01-3<br>9001-53-9                  | 55-65<br>5-15<br>3-10<br>5-12<br>7-15<br>2-8<br>0.5-2.0       |
| A.P. GREEN REFRACTORIES | Y R042              | HC-22              | FIREBRICK GROG<br>CALCINED FLINT CLAY<br>REFRACTORY CEMENT                                                                                         | -<br>66402-68-4<br>-                                                                               | 55-70<br>5-15<br>25-40                                        |
| A.P. GREEN REFRACTORIES | Y R041              | LO-ABRADE          | CALCINED FIRECLAY<br>REFRACTORY CEMENT<br>AMORPHOUS SILICA<br>CALCINED ALUMINA                                                                     | 66402-68-4<br>-<br>7631-86-9<br>1344-28-1                                                          | 80-85<br>7-13<br>4-8<br>2-4                                   |
| A.P. GREEN REFRACTORIES | Y R030              | GREENPAK-85-P      | CALCINED SOUTH AMERICAN BAUXITE<br>CALCINED ALUMINA<br>BENTONITE<br>MONO ALUMINUM PHOSPHATE<br>PHOSPHORIC ACID<br>WATER                            | 66402-68-4<br>1344-28-1<br>1302-78-9<br>7784-30-7<br>7664-38-2<br>7732-18-5                        | 70-80<br>18-27<br>2-6<br>2-6<br>1-10<br>4-9                   |

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