



## BEIJING MININGSUN IMP AND EXP CO., LTD

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### PRODUCT DATA SHEET

#### UNDENSIFIED MICROSILICA (90D)

*The experimental data is for reference only.*

##### 1. Activity Index Experiment

|                                | Raw Material (g)                    | Control Proportion | Experimental Proportion |
|--------------------------------|-------------------------------------|--------------------|-------------------------|
|                                | 525# Silica Acid Cement             | 540                | 486                     |
| <b>Undensified Microsilica</b> | Crystalline Flour                   | 0                  | 54                      |
|                                | Standard Sand                       | 1,350              | 1,350                   |
|                                | Water                               | 210                | 225                     |
| <b>28 DAY</b>                  | Break-resistance Intensity (MPa)    | 10.21              | 11.46                   |
|                                | Compress-resistance Intensity (MPa) | 76.1               | 83.8                    |
| <b>Activity Index</b>          | Break-resistance                    | <b>112</b>         |                         |
|                                | Compress-resistance                 | <b>110</b>         |                         |

##### 2. Influence of Microsilica Quantity on Mortar Intensity

|  | 1                       | 2      | 3      | 4      |        |
|--|-------------------------|--------|--------|--------|--------|
| <b>Raw Material (Kg)</b>               | Cement                  | 540.0  | 507.6  | 496.8  | 486.0  |
|  | Crystalline Flour       | 0      | 32.4   | 43.2   | 54.0   |
|  | Standard Sand           | 1350.0 | 1350.0 | 1350.0 | 1350.0 |
|  | Water                   | 238.0  | 238.0  | 238.0  | 238.0  |
|  | Water Reducing Agent RC | 0      | 0.54   | 0.81   | 1.08   |
| <b>Quantity of Microsilica 90% (%)</b> |                         | 0      | 6      | 8      | 10     |



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|                                   |                                     |      |      |      |      |
|-----------------------------------|-------------------------------------|------|------|------|------|
| Degree of Fluidity of Mortar (mm) |                                     | 136  | 142  | 142  | 143  |
| <b>7 DAY</b>                      | Break-resistance Intensity (MPa)    | 7.66 | 7.56 | 7.59 | 7.19 |
|                                   | Compress-resistance Intensity (MPa) | 52.2 | 49.6 | 53.0 | 50.7 |
| <b>28 DAY</b>                     | Break-resistance Intensity (MPa)    | 9.40 | 9.68 | 9.94 | 9.88 |
|                                   | Compress-resistance Intensity (MPa) | 66.0 | 70.0 | 73.0 | 78.0 |

### 3. Concrete Intensity Experiment

| Raw Material Qty (Kg)                      | 1             | 2      | 3      |
|--|---------------|--------|--------|
| Cement                                     |               | 488.9  | 499.8  |
| Crystalline Flour                          |               | 0      | 39.1   |
| Water                                      |               | 127.00 | 127.11 |
| Sand                                       |               | 621.7  | 621.7  |
| Rock                                       |               | 1262.3 | 1262.3 |
| <b>Maximum Aggregate Size (mm)</b>         | 20            | 20     | 20     |
| Water-to-Cement Ratio                      | 0.26          | 0.26   | 0.26   |
| <b>Quantity of Microsilica 90% (%)</b>     | 0             | 8      | 10     |
| Water Reducing Agent % (RC)                | 1.0           | 1.0    | 1.0    |
| <b>Compress-resistance Intensity (MPa)</b> | <b>7 DAY</b>  | 62.2   | 68.9   |
|  | <b>28 DAY</b> | 79.1   | 90.0   |



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Silica Fume used as concrete additive can significantly reduce water requirement, increase the intensity and density of concrete, improve product quality and prolong product lifespan. It is therefore an optimal bonding agent.

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