



## BEIJING MININGSUN IMP AND EXP CO., LTD

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### PRODUCT DATA SHEET

#### UNDENSIFIED MICROSILICA (92D)

*The experimental data is for reference only.*

##### 1. Activity Index Experiment

	Raw Material (g)	Control Proportion	Experimental Proportion
	525# Silica Acid Cement	540	510
<b>Undensified Microsilica</b>	Crystalline Flour	0	54
	Standard Sand	1,350	1,350
	Water	210	214
<b>28 DAY</b>	Break-resistance Intensity (MPa)	10.21	11.49
	Compress-resistance Intensity (MPa)	76.1	83.8
<b>Activity Index</b>	Break-resistance	<b>112</b>	
	Compress-resistance	<b>113</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 92% (%)</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)	7.68	7.61	7.63	7.35
	Compress-resistance Intensity (MPa)	52.5	50.2	53.7	51.2
<b>28 DAY</b>	Break-resistance Intensity (MPa)	9.45	9.76	9.95	9.91
	Compress-resistance Intensity (MPa)	66.1	70.0	73.12	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 92% (%)</b>	0	8	10	
Water Reducing Agent % (RC)	1.0	1.0	1.0	
<b>Compress-resistance Intensity (MPa)</b>	<b>7 DAY</b>		62.4	69.1
	<b>28 DAY</b>		79.8	91.0



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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.

\* Above test data is for reference only.

  
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