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Comparison of alkali and silica sources in one-part alkali-activated blast furnace slag mortar

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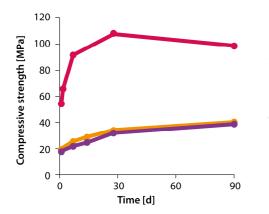
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BLAST FURNACE SLAG ACTIVATED WITH:

Synthetic sodium metasilicate

Si Solubility 100% (in deionized water) Mortar initial setting time 20–60 min

Milled microsilica and solid NaOH

Si Solubility 35% (in 10 M NaOH / 4 h) Mortar initial setting time 40–70 min

Milled rice husk ash and solid NaOH

Si Solubility 10% (in 10 M NaOH / 4 h) Mortar initial setting time 30–70 min

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