

NANO-TEK<sup>®</sup> is a family of colloidal silica-bonded refractory products providing good strengths and thermal shock resistance and adheres well to existing refractories. The NANO-TEK<sup>®</sup> AL line exhibits excellent resistance to molten aluminum and its alloys.

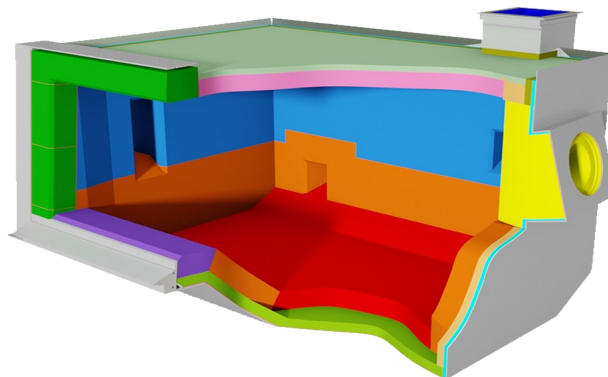
### Benefits

- Accelerated heat-up
- Quick turnaround
- Excellent thermal shock resistance
- Abrasion resistant
- No cement
- Good mechanical strengths

### Applications

- All areas within reverb furnaces

Product	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Material Required
	%	%	g/cm <sup>3</sup> (lb./ft <sup>3</sup> )
NANO-TEK <sup>®</sup> 45 AL	44.6	50.4	2.08 g/cm <sup>3</sup> (130 lb./ft <sup>3</sup> )
NANO-TEK <sup>®</sup> 45 AL G	44.0	50.4	1.94 g/cm <sup>3</sup> (121 lb./ft <sup>3</sup> )
NANO-TEK <sup>®</sup> 60 AL	62.3	31.6	2.40 g/cm <sup>3</sup> (150 lb./ft <sup>3</sup> )
NANO-TEK <sup>®</sup> 61 HS	62.1	33.4	Vibration: 2.45 g/cm <sup>3</sup> (153 lb./ft <sup>3</sup> ) Shotcrete: 2.35 g/cm <sup>3</sup> (147 lb./ft <sup>3</sup> )
NANO-TEK <sup>®</sup> 65	60.7	35.1	Vibration: 2.52 g/cm <sup>3</sup> (157 lb./ft <sup>3</sup> ) Shotcrete: 2.40 g/cm <sup>3</sup> (150 lb./ft <sup>3</sup> )
NANO-TEK <sup>®</sup> 70	68.1	28.6	Vibration: 2.58 g/cm <sup>3</sup> (161 lb./ft <sup>3</sup> ) Shotcrete: 2.47 g/cm <sup>3</sup> (154 lb./ft <sup>3</sup> )
NANO-TEK <sup>®</sup> 70 HS	67.9	28.4	Vibration: 2.58 g/cm <sup>3</sup> (161 lb./ft <sup>3</sup> ) Shotcrete: 2.48 g/cm <sup>3</sup> (155 lb./ft <sup>3</sup> )
NANO-TEK <sup>®</sup> 75 18SiC AL	73.9	3.7	2.93 g/cm <sup>3</sup> (183 lb./ft <sup>3</sup> )
NANO-TEK <sup>®</sup> 80 AL	82.4	11.1	2.72 g/cm <sup>3</sup> (170 lb./ft <sup>3</sup> )
NANO-TEK <sup>®</sup> 84 AL G	84.5	11.4	2.52 g/cm <sup>3</sup> (157 lb./ft <sup>3</sup> )



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