



Product Data

8/05: 5006

'SAIRSET®

Technical Data:

Physical Properties: (Typical)

	<u>English Units</u>	<u>SI Units</u>
Maximum Temperature	3000°F	1650°C

Refractoriness Test

2910°F (1600°C) Test Temperature

No Softening or Flowing

Approximate Amount Required per 1000 9" Equivalent:

Dipping Consistency

350 - 400 Lbs.

159 - 181 Kg.

Water Required (Approximate)

Volume per 100 pounds (45.4 kg)

For Laying Brick

Troweling Consistency

Dipping Consistency

Gallons

Liters

¼

0.9

1¼

4.7

lb/in²

MPa

Modulus of Rupture at Joints

After 220°F (105°C)

650

4.5

After 1500°F (815°C)

500

3.4

Water Retention

A.R.I. Technical Bulletin No. 60

14 Minutes

Particle Size

Retained on 20 Mesh Screen (0.83mm opening)

0.5%

Retained on 35 Mesh Screen (0.42mm opening)

5.0%

Chemical Analysis: (Approximate)

(Calcined Basis)

Silica	(SiO ₂)	59.9%
Alumina	(Al ₂ O ₃)	33.3
Titania	(TiO ₂)	2.3
Iron Oxide	(Fe ₂ O ₃)	1.4
Lime	(CaO)	0.3
Magnesia	(MgO)	0.2
Alkalies	(Na ₂ O+K ₂ O)	2.6

(Continued)



Product Data

'SAIRSET[®] (Continued)

The test data shown are based on average results on production samples and are subject to normal variation on individual tests. The test data cannot be taken as minimum or maximum values for specification purposes. ASTM test procedures used when applicable.

Description: 'SAIRSET is a wet, high strength, air-setting, high temperature mortar for temperatures up to 3000°F (1650°C).

Uses: Typical applications are for laying high duty, super duty, high fired super duty, and 50% alumina firebrick. This product was formulated for trowelled mortar joints in brick linings. For dipping consistency, water must be added to the pail.