

# Low Cement Castables

## Product Data

### QUIKTURN 45RSP

**QUIKTURN 45RSP** is a 45% Alumina, Mullite based, ultra-low cement castable designed for pumpcasting. This product can be pumped using small rotor stator pumps, allowing low volume Shotcrete installations to be carried out using equipment which is readily available and of relatively low cost. It is designed for new and full lining repairs using anchored construction. After the initial set, the furnace lining can be returned to operation without curing or the traditional controlled heating schedule. **QUIKTURN 45RSP** has good strength, alkali and abrasion resistance. This is not a self flow product.

**Maximum Service Temperature:** 1600°C (2900°F)

#### Bulk Density:

Dried to 110°C (220°F)	2310 - 2400 kg/m <sup>3</sup>	(144 – 150 lbs/ft <sup>3</sup> )
Fired to 815°C (1500°F)	2260 - 2350 kg/m <sup>3</sup>	(141 – 147 lbs/ft <sup>3</sup> )

#### Cold Crushing Strength:

Dried to 110°C (220°F)	414 – 690 kg/cm <sup>2</sup>	(6000 – 10000 psi)
Fired to 815°C (1500°F)	552 - 827 kg/cm <sup>2</sup>	(8000 – 12000 psi)

#### Modulus of Rupture:

Dried to 110°C (220°F)	83 - 138 kg/cm <sup>2</sup>	(1200 – 2000 psi)
Fired to 815°C (1500°F)	138 - 207 kg/cm <sup>2</sup>	(2000 – 3000 psi)

#### Erosion Loss:

Fired to 815°C (1500°F)	Less than 12 cc (Typical loss 8-9 cc)
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#### Permanent Linear Change(%):

110°C to 815°C (1500°F)	-0.1 to -0.4 %
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#### Conductivity or “K” Factor:

Mean Temp.	W/mK	BTU/ft <sup>2</sup> /HR/°F/in
540°C (1000°F)	1.30	9.0
815°C (1500°F)	1.44	10.0
1095°C (2000°F)	1.44	10.0

#### Typical Chemical Analysis(%):

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	Alkalies
45.4	49.7	1.1	2.2	1.0	0.35

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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