



Therm-O-Hot Patch and Therm-O-Hot Patch HS are ideal insulating materials for fast, easy, refractory repairs. Therm-O-Hot Patch is composed of exfoliated vermiculite with binders and is a **heat-set** product. Therm-O-Hot Patch HS is similar to the regular grade but contains an additional binder to make it a strong, **air-set** product. They have a service range to 1900°F (1040°C), are premixed, and shipped in a five gallon pail. Both can be used for joints, cracks in walls, arches, and furnace roofs to stop heat leaks. Therm-O-Hot Patch and Therm-O-Hot Patch HS both make an excellent seal for “hot” walls, bulkheads and arches, minimizing cold air infiltration, and conserving heat loss.

Simply open the pail, and depending upon the method of application required, pump, caulk, spray, or trowel in place. Therm-O-Hot Patch and Therm-O-Hot Patch HS both adhere well to all surfaces and dry quickly with minimal shrinkage.

Features

- Service range to 1900°F (1038°C)
- Excellent for fast, easy, hot surface repairs
- Adheres well to all surfaces
- Dries quickly
- Indefinite shelf life on standard Therm-O-Hot Patch

Applications

- On the spot repair jobs to side walls, end walls, ports or furnace roofs
- A sealer for “hot” walls, bulkheads, and arches
- Reduce cold air infiltration
- Reduce heat loss
- Good for expansion joint areas

Method of Application

- Troweling
- Pumping
- Caulking
- Gunning

Packaging

5 gallon pail, lb (kg)	40 (18)
Pails per pallet	24

Therm-O-Hot Patch, HS

Product Information

Physical Properties	Therm-O-Hot Patch	Therm-O-Hot Patch HS
Maximum service temperature, °F (°C)	1900 (1040)	1900 (1040)
Density (ASTM C 303)		
wet, lb/ft ³ (kg/m ³)	60 (961)	60 (961)
dry, lb/ft ³ (kg/m ³)	22.4 (358.8)	30.4 (487.0)
1500°F (°C), lb/ft ³ (kg/m ³)	21.4 (342.8)	28.9 (463.0)
Crushing strength (ASTM C 165)		
220°F (°C), lb/in ² (kg/cm ²)	45 (3.2)	66 (4.6)
1500°F (°C), lb/in ² (kg/cm ²)	65 (4.6)	195 (13.8)
Linear shrinkage, % (ASTM C 113)		
@ 1500°F (°C)	-1.5	-0.8

Chemical Analysis, Nominal, % weight basis after firing

Alumina, Al ₂ O ₃	19	13
Silica, SiO ₂	46	60
Ferric oxide, Fe ₂ O ₃	8.9	7.5
Titanium oxide, TiO ₂	2.1	2.5
Calcium oxide, CaO	1.7	1.4
Magnesium oxide, MgO	17	13
Alkalies as, K ₂ O	4.4	3.4
Chromium oxide, Cr ₂ O ₃	trace	trace

Thermal Conductivity, BTU•in/hr•ft² (w/m•k)

Mean temperature		
@ 200°F (93.3°C)	-	0.82 (0.12)
@ 400°F (204°C)	0.76 (0.11)	-
@ 500°F (260°C)	-	0.95 (0.14)
@ 800°F (426°C)	0.97 (0.14)	-
@ 1000°F (537°C)	-	1.10 (0.16)
@ 1200°F (649°C)	1.25 (0.18)	-
@ 1600°F (871°C)	1.56 (0.22)	-

Data are average results of tests conducted under standard procedures and are subject to variation.

Data contained in this brochure are intended as a guide only. For specifications and estimating purposes, contact your nearest Thermal Ceramics representative.

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