



Fired Shapes

Product Data

PACO MIX #21HS

PACO MIX #21HS is a high strength version of the #20 MIX developed to better withstand mechanical abuse in the ceramic industries, allowing the use of lower mass and thinner walls without sacrificing durability.

Pyrometric Cone Equivalent: cone 20 (2845°F)

Bulk Density: 127-133 lb/ft³

Apparent Porosity: 17-21%

Modulus of Rupture: 1100-1300 psi

Cold Crushing Strength: 6000-9000 psi

Strength Retention: After 6 cycles of Air Shock
(2250°F to Room Temperature)

Cold Crushing Strength 90 - 100% (Typical 8000 psi)

Modulus of Rupture 50- 70% (Typical 600 psi)

Maximum Service Temperature: 2300°F

Coefficient of Thermal Expansion: (Avg.)
From room temp. to 1425°F 1.4 x 10⁻⁶ In/In/°F
(From room temp. to 775°C) (2.7 x 10⁻⁶ cm/cm/°C)

Long Time Hot Load Test:

ASTM C 546-67 @2300°F -0.5%

100 hrs., 25 psi @2350°F -0.9%

Typical Chemical Analysis(%)

Al ₂ O ₃	36.6
SiO ₂	53.9
Fe ₂ O ₃	2.0
TiO ₂	1.2
MgO	5.8
CaO	0.1
K ₂ O	0.3
Na ₂ O	0.2

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), 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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