

## RESCOLITE MWHT

*RESCOLITE MWHT IS A MEDIUM WEIGHT INSULATING CASTABLE WHICH COMBINES THE QUALITIES OF AN INSULATING CASTABLE AND GENERAL DUTY MATERIAL. IDEAL FOR TEMPERATURES UP TO 1350°C. CAST DATA*

**MAXIMUM SERVICE TEMPERATURE (M.S.T.)** (1350°C)

**BULK DENSITY**

@ 110°C	94 - 99	LBS/FT <sup>3</sup>	1506 - 1586	KG/M <sup>3</sup>
@ 815°C	87 - 92	LBS/FT <sup>3</sup>	1394 - 1474	KG/M <sup>3</sup>

**COLD CRUSHING STRENGTH**

@ 815°C	800 - 1200	P.S.I.	55 - 83	KG/CM <sup>2</sup>
@ M.S.T.	1200 - 1600	P.S.I.	83 - 110	KG/CM <sup>2</sup>

**COLD MODULUS OF RUPTURE**

@ 110°C	250 - 400	P.S.I.	17 - 28	KG/CM <sup>2</sup>
@ 815°C	200 - 350	P.S.I.	14 - 24	KG/CM <sup>2</sup>

**PERMANENT LINEAR CHANGE**

@ 815°C - 0.30 % MAX

**CONDUCTIVITY OR "K" FACTOR**

<u>MEAN TEMP</u>	<u>BTU/FT<sup>2</sup>/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	2.35	0.34
@ 540°C (1000°F)	2.50	0.36
@ 815°C (1500°F)	2.90	0.42
@ 1095°C (2000°F)	3.35	0.48

**TYPICAL CHEMICAL ANALYSIS (%)**

AL <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	TiO <sub>2</sub>	ALK
42.5	40.0	4.5	9.0	0.6	2.0	1.1

1.8044

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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# RESCOLITE MWHT

RESCOLITE MWHT CAN ALSO BE READILY APPLIED BY GUNITE APPLICATION.  
DATA SHOWN ARE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDE LINES SET  
FORTH IN ASTM C-903-70 "PREPARING REFRACTORY CONCRETE SPECIMEN'S BY  
COLD GUNNING".

## MAXIMUM SERVICE TEMPERATURE (M.S.T.)

(1370°C)

## BULK DENSITY

@ 815°C	90 - 100	LBS/FT <sup>3</sup>	1440 - 1600	KG/M <sup>3</sup>
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## COLD CRUSHING STRENGTH

@ 815°C	900 - 1300	P.S.I.	62 - 90	KG/CM <sup>2</sup>
@ 1095°C	800 - 1200	P.S.I.	56 - 84	KG/CM <sup>2</sup>
@ M.S.T.	1200 - 1600	P.S.I.	83 - 110	KG/CM <sup>2</sup>

## COLD MODULUS OF RUPTURE

@ 815°C	300 - 500	P.S.I.	21 - 35	KG/CM <sup>2</sup>
@ 1095°C	250 - 350	P.S.I.	16 - 25	KG/CM <sup>2</sup>
@ M.S.T.	300 - 500	P.S.I.	21 - 35	KG/CM <sup>2</sup>

## PERMANENT LINEAR CHANGE

@ 815°C	- 0.00 TO - 0.40 %
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