

ผนวก ข

ผลการทดสอบค่าการนำความร้อนของมอร์ตาร์ที่ผสมด้วยเถ้าซีเมนต์

Samples (WxLxT mm)	Condition Used		Thermal Properties	Measurement Results	Average	S.D.
	Out Put of Power(W)	Measuring Time(s)				
OPC1 (40x40x15 mm)	0.50	30	Thermal Conductivity (W/mK)	1.6790 1.6810 1.6680	1.6760	0.0070
			Thermal Diffusivity (mm ² /s)	0.9035 0.8363 0.8520	0.8639	0.0351
			Specific Heat (MJ/m ³ K)	1.8580 2.0100 1.9580	1.9420	0.0773
GBC (5) (40x40x15 mm)	0.50	30	Thermal Conductivity (W/mK)	1.7450 1.7440 1.7450	1.7447	0.0006
			Thermal Diffusivity (mm ² /s)	0.8823 0.8867 0.8718	0.8803	0.0077
			Specific Heat (MJ/m ³ K)	1.9770 1.9670 2.0020	1.9820	0.0180
GBC (10) (40x40x15 mm)	0.40	30	Thermal Conductivity (W/mK)	1.6660 1.6590 1.6600	1.6617	0.0038
			Thermal Diffusivity (mm ² /s)	0.8154 0.7923 0.7746	0.7941	0.0205
			Specific Heat (MJ/m ³ K)	2.0430 2.0940 2.1430	2.0933	0.0500

แผนวก ๗ (ต่อ)

Samples (WxLxT mm)	Condition Used		Thermal Properties	Measurement Results	Average	S.D.		
	Out Put of Power(W)	Measuring Time(s)						
GBC (15) (40x40x15 mm)	0.30	30	Thermal Conductivity (W/mK)	1.6280 1.6200 1.6170	1.6217	0.0057		
			Thermal Diffusivity (mm ² /s)	0.8605 0.8543 0.8364			0.8504	0.0125
			Specific Heat (MJ/m ³ K)	1.8920 1.8920 1.9330				
GBC (20) (40x40x15 mm)	0.50	30	Thermal Conductivity (W/mK)	1.6600 1.6610 1.6590	1.6600	0.0010		
			Thermal Diffusivity (mm ² /s)	0.7818 0.7732 0.7779			0.7776	0.0043
			Specific Heat (MJ/m ³ K)	2.1230 2.1480 2.1330				
CBS (5) (40x40x15 mm)	0.30	30	Thermal Conductivity (W/mK)	1.4790 1.4790 1.4730	1.4770	0.0035		
			Thermal Diffusivity (mm ² /s)	0.7953 0.7699 0.7512			0.7721	0.0221
			Specific Heat (MJ/m ³ K)	1.8590 1.9210 1.9610				

แผนวก ๗ (ต่อ)

Samples (WxLxT mm)	Condition Used		Thermal Properties	Measurement Results	Average	S.D.
	Out Put of Power(W)	Measuring Time(s)				
CBS (10) (40x40x15 mm)	0.40	40	Thermal Conductivity (W/mK)	1.2760 1.2740 1.2750	1.2760	0.0010
			Thermal Diffusivity (mm ² /s)	0.5751 0.5817 0.5825	0.5798	0.0041
			Specific Heat (MJ/m ³ K)	2.2200 2.1900 2.1900	2.2000	0.0173
CBS (15) (40x40x15 mm)	0.50	40	Thermal Conductivity (W/mK)	1.1470 1.1480 1.1460	1.1470	0.0010
			Thermal Diffusivity (mm ² /s)	0.5673 0.5612 0.5698	0.5661	0.0044
			Specific Heat (MJ/m ³ K)	2.0220 2.0450 2.0120	2.0263	0.0169
CBS (20) (40x40x15 mm)	0.40	30	Thermal Conductivity (W/mK)	1.0650 1.0610 1.0610	1.0623	0.0023
			Thermal Diffusivity (mm ² /s)	0.4561 0.4569 0.4605	0.4578	0.0023
			Specific Heat (MJ/m ³ K)	2.3360 2.3220 2.3030	2.3203	0.0166