

Week Ending	Supplier ID	SO3 (%)	Sodium Equ (NaEq)	Residue (%)	Fineness (m2/kg)	Initial Set (min)	Final Set (hour)	Soundness (%)	Water (%)	LOI (%)	3 D-MS (MPa)	7 D-MS (MPa)	28 D-MS (MPa)
11/05/2018	HRCL		0.52	3.50	335								
04/05/2018	HRCL	2.50	0.51	4.40	325	90	2.75	1.00	28.3	0.90	40.2		
27/04/2018	HRCL	2.50	0.53	3.90	325	90	2.75	2.00	28.3	0.90	38.2	52.9	
20/04/2018	HRCL	2.45	0.53	3.90	335	105	2.75	2.00	28.3	0.90	36.9	52.0	
13/04/2018	HRCL	2.30	0.55	4.50	330	105	2.75	1.00	28.3	0.95	37.5	53.4	
09/04/2018	HRCL	2.35	0.53	4.80	330	105	3.00	1.00	28.3	0.85	35.8	52.0	65.0
29/03/2018	HRCL	2.45	0.55	3.90	330	90	2.75	1.00	28.3	0.85	37.2	51.9	64.6
23/03/2018	HRCL	2.45	0.54	3.80	335	75	2.50	1.00	28.2	0.75	37.6	53.0	65.4
16/03/2018	HRCL	2.40	0.52	3.40	335	90	2.75	1.00	28.3	1.00	35.8	51.5	65.1
09/03/2018	HRCL	2.30	0.53	4.00	340	90	2.50	2.00	28.3	0.90	37.6	53.8	67.2
02/03/2018	HRCL	2.20	0.51	3.30	335	90	2.50	1.00	28.0	0.80	33.5	49.8	RT
23/02/2018	HRCL	2.30	0.54	3.80	335	75	2.50	1.00	28.2	1.00	36.8	52.6	66.0
16/02/2018	HRCL	2.30	0.54	4.90	335	75	2.50	3.00	28.0	1.00	34.4	52.9	64.3
09/02/2018	HRCL	2.50	0.54	6.20	320	105	2.50	1.00	28.0	1.00	34.5	47.3	63.8
02/02/2018	HRCL	2.50	0.54	6.20	320	90	2.75	1.00	28.0	1.00	33.5	49.5	63.6
26/01/2018	HRCL	2.50	0.53	6.40	320	90	2.75	3.00	28.0	0.95	32.1	46.9	61.9
19/01/2018	HRCL	2.40	0.50	5.50	320	90	2.75	2.00	28.2	0.95	32.8	47.6	62.1
22/12/2017	HRCL	2.25	0.52	7.90	320	105	2.50	0.00	28.2	0.90	36.1	52.3	63.0
15/12/2017	HRCL	2.40	0.52	8.00	305	90	2.50	3.00	28.1	0.90	33.3	49.3	62.3
8/12/2017	HRCL	2.70	0.51	7.20	315	75	2.25	3.00	28.1	0.90	33.0	47.5	62.0
1/12/2017	HRCL	2.70	0.53	7.30	320	90	2.75	1.00	27.8	1.00	32.9	46.5	62.2
24/11/2017	HRCL	2.75	0.53	7.70	315	90	2.75	1.00	28.3	0.90	35.3	48.8	64.0
Min		2.20	0.50	3.30	305			0.00	27.8	0.75	32.1	46.5	61.9
Max		2.90	0.55	8.00	340			3.00	28.3	1.00	40.2	53.8	67.2
Mean		2.46	0.53	5.20	326			1.57	28.2	0.92	35.5	50.6	63.9
Std Dev		0.18	0.01	1.61	9.02			0.87	0.15	0.07	2.19	2.19	1.59
NZS 3122:2009		3.50	0.64			45	6.00	5.00				35.0	45.0
Requirements		maximum	maximum			minimum	maximum	maximum				Minimum	Minimum

RT – Retesting Sample

The above samples were tested as received in accordance with NZS3122:2009 & AS2350:2006

Results also on [www.hrcl.co.nz](http://www.hrcl.co.nz) website

All testing performed by IANZ / NATA approved Laboratory.

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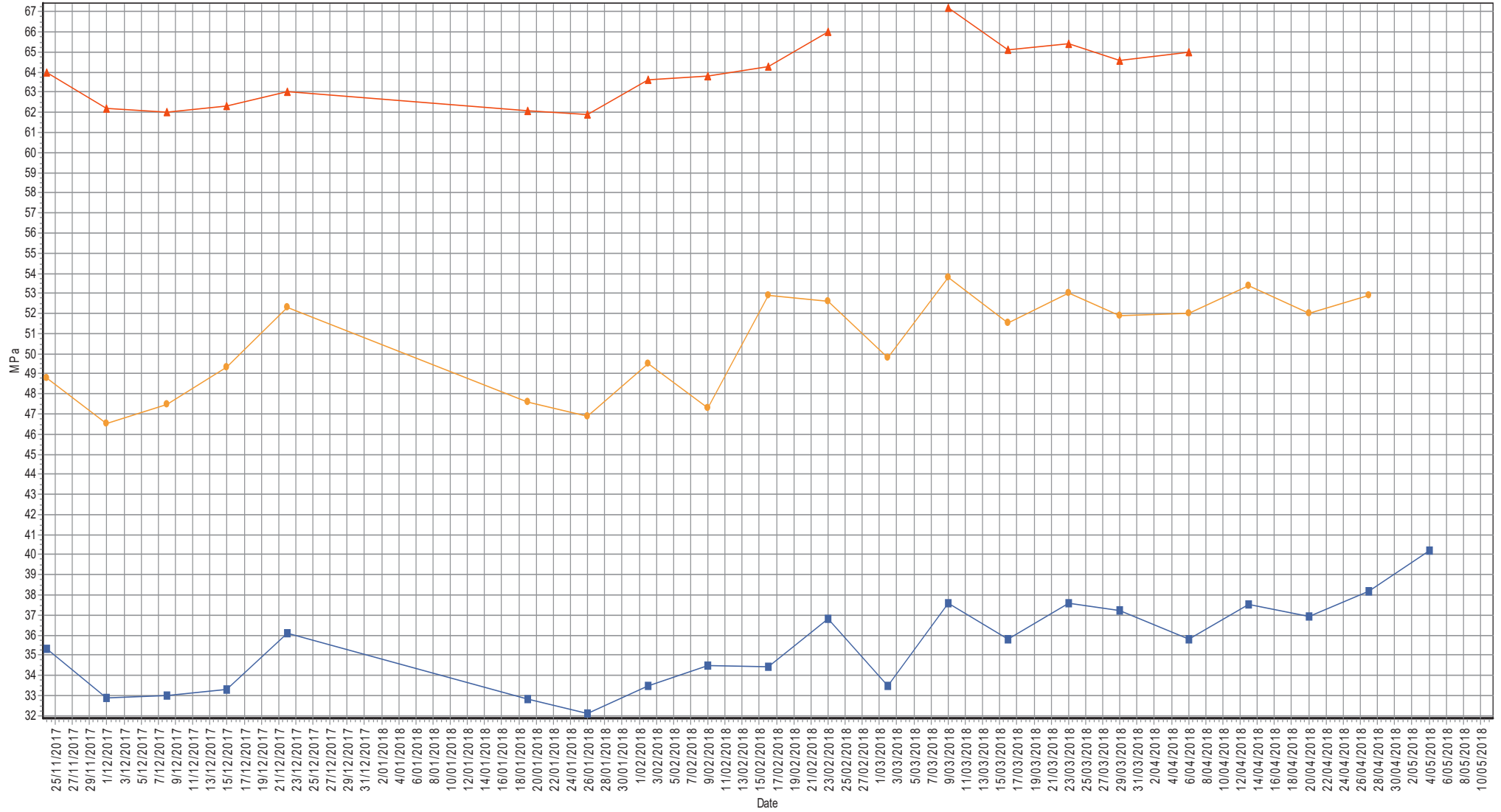
Issue Date 11/05/2018  
Report Id: HRGP18 #222



Quality  
ISO 9001

# HR - Ordinary Portland Cement Type GP

Material Type : Cement  
Material Code : GP -  
From : 24/11/2017  
To : 11/05/2018



■ 3 D-MS    ◆ 7 D-MS    ▲ 28 D-MS