

Monsieur Haenen  
Société Buzon Pedastal International  
ZI des Hauts Sarts  
Zone 1  
Prolongement de l'Abbaye 131  
4040 Herstal

**your reference**  
your reference

**our reference**  
18-1904 Labtool S180169

**contact person**  
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Liège  
24/07/2018

## Rapport DPH-5 - PH5

Dear Sir,

Following your analysis request, please find enclosed the compressive test results on DPH-5 - PH5

We stay at your disposal for any complementary information.

Best regards,

F. Schoumaker  
Laboratory coordinator

M. Gasparini  
Laboratory manager

### Remarks

The here-above tests results may be published or communicated provided 'test realised in Sirris' is mentioned.  
Test results are valid only for the tested samples.

**TESTS REPORT**

**Ref: 18-1904**

**Company : Buzon**

**CONCERNING : Compression tests**

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**SAMPLES TYPE**

Receipt date : 2018/07/09

Client reference :	Tests at 23°C -	Pedestal DPH-5 - PH5 – H 175mm – Tests 1/1 Pedestal DPH-5 - PH5 – H 175mm – Tests 1/2 Pedestal DPH-5 - PH5 – H 175mm – Tests ¼
	Tests at 80°C	Pedestal DPH-5 - PH5 – H 175mm – Tests 1/1 Pedestal DPH-5 - PH5 – H 175mm – Tests ¼
	Test at -30°C	Pedestal DPH-5 - PH5 – H 175mm – Tests 1/1 Pedestal DPH-5 - PH5 – H 175mm – Tests ¼

Sirris reference : Idem

**Samples conditioning**

According to the laboratory normal atmosphere: European standard ISO 291

Temperature: 23±2 C - Humidity: 50 ±5%

Tests at 80°C and -30°C

the parts are conditioned at the test temperature for a minimum period of 1 hour before the test

**Analysis**

Compression tests

**Operator**

F. Schoumaker – K. Garsou – O. Dony

**Tests date**

July 2018

**Methodology**

Instron Corporation interface type : Series 4500

Automatized materials tests system: Series IX 7.34.00

The load cell is calibrated by Schütz and the machine by Instron.

The 100kN load cell calibration certificate and the crosshead speed and displacement calibration certificates are valid and can be sent on request.

Machine and load cell : class 0.5

**Sampling**

Pedestals tested as received

Compression tests – number of machine method : 27

Machine parameters

Machine Instron 4507

Test speed : 10mm/min -

Temperature : (Deg C) : 23±2°C

Humidity( % )50±5%

**Result at 23°C**

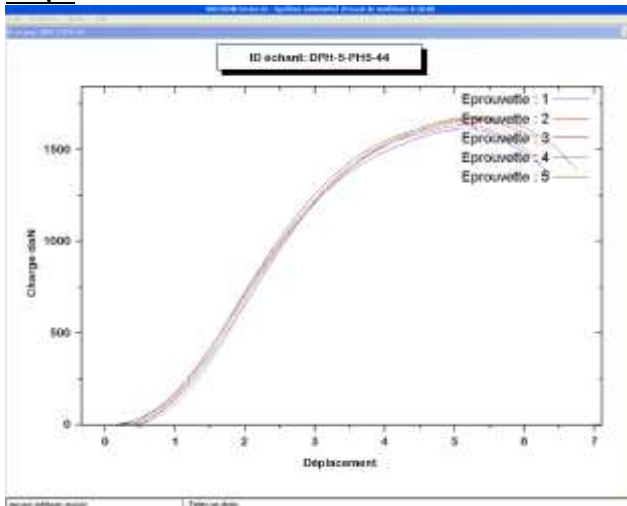
Pedestal DPH-5 - PH5 – H 175mm – Tests 1/1



**Tests at temperature 23°C**

Sample	<u>Load</u> N	<u>Load</u> daN	<u>Load</u> lbt	<u>Displacement</u> mm	<u>Breaking mode</u>
1	16117.3	1611.7	3626	4.73	Failure keys
2	16330.5	1633.1	3674	4.79	Deformation
3	16665.7	1666.6	3750	4.82	Deformation
4	16747.9	1674.8	3768	4.86	Deformation
5	16600.7	1660.1	3735	4.45	Deformation
Average	16492.4	1649.2	3711	4.73	
Standard deviation	261.7	26.2	59	0.16	
% variation	2%	2%	2	3%	

**Graph**



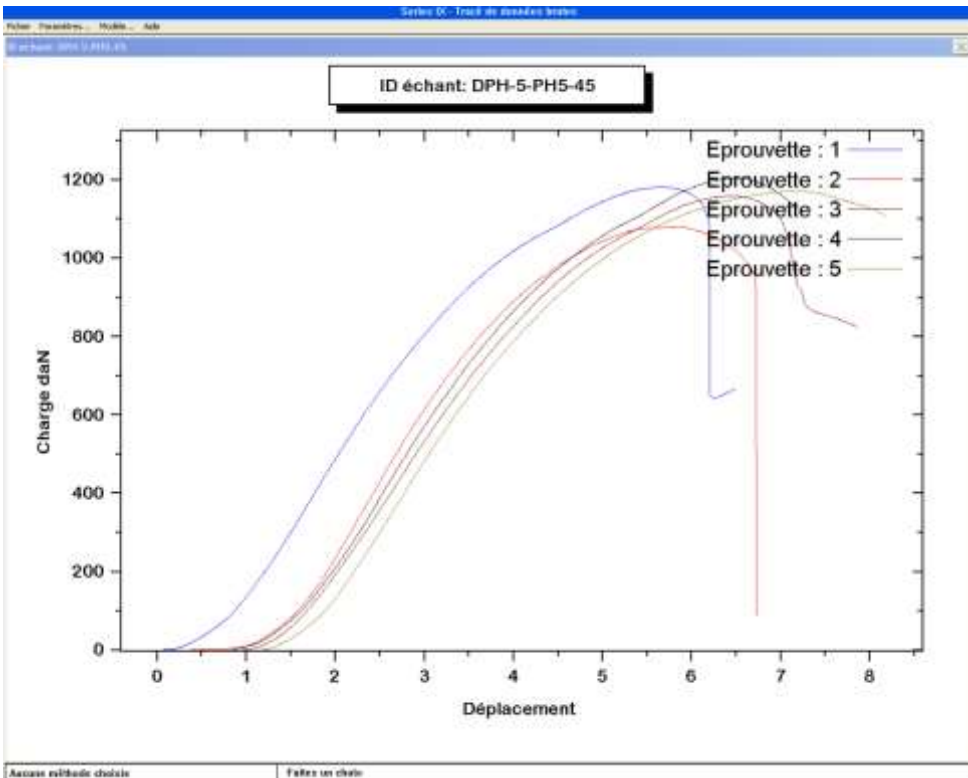
**Result at 23°C**

Pedestal DPH-5 - PH5 – H 175mm – Tests 1/2



Tests at temperature 23°C

Sample	Load N	Load daN	Load lbt	Displacement mm	Breaking mode
1	11810.3	1181.0	2657	5.37	Failure keys
2	10781.1	1078.1	2426	4.83	Failure keys
3	11585.2	1158.5	2607	5.30	Deformation
4	12040.8	1204.1	2709	5.48	Deformation
5	11703.6	1170.3	2633	5.89	Crushing
Average	11584.0	1158.4	2606	5.37	
Standard deviation	479.2	47.9	108	0.38	
% variation	4%	4%	4	7%	



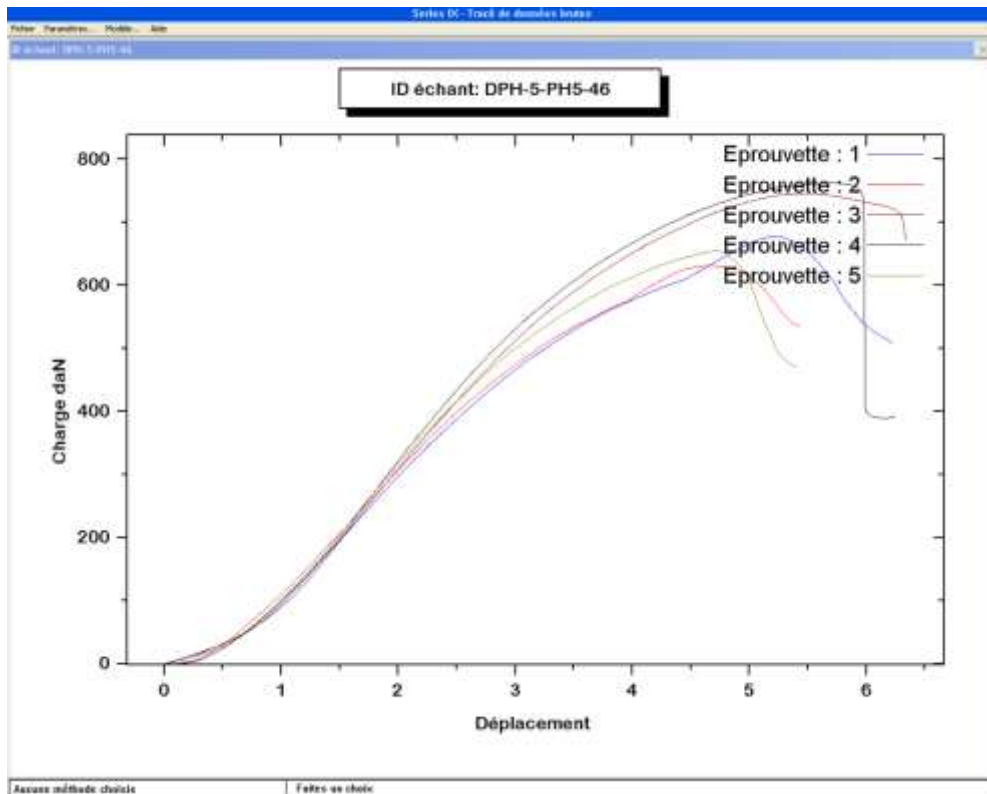
**Result at 23°C**

Pedestal DPH-5 - PH5 – H 175mm – Tests 1/4



**Tests at temperature 23°C**

Sample	Load N	Load daN	Load lbt	Displacement mm	Breaking mode
1	6766.6	676.7	1523	5.19	Deformation
2	6034.4	630.4	1418	4.40	Deformation
3	7451.2	745.1	1676	5.44	Crushing
4	7600.0	760.0	1710	5.31	Thread jumps
5	6538.8	653.9	1471	4.67	Deformation
Average	6932.2	693.2	1560	5.00	
Standard deviation	56.8	56.8	128	0.45	
% variation	8%	8%	8	9%	



**Result at 80°C**

Pedestal DPH-5 - PH5 – H 175mm – – Tests 1/1 and Tests 1/4



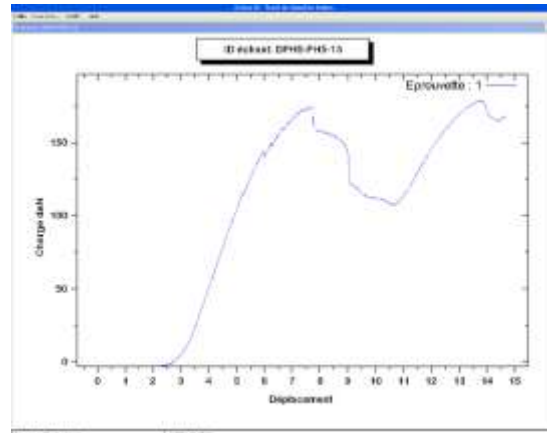
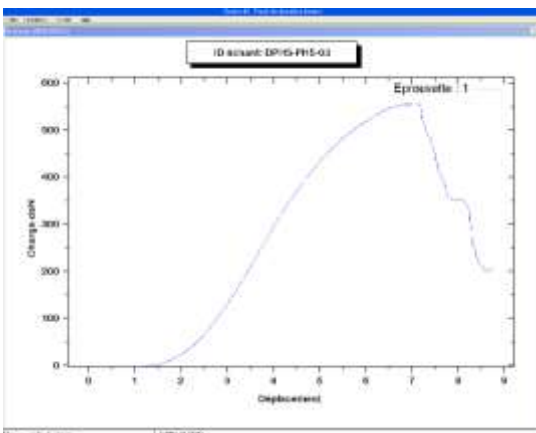
**Tests at temperature 80°C**

Sample	Load N	Load daN	Load lbt	Displacement mm	Breaking mode
1/1	5555.2	555.5	1250	5.66	Deformation

Sample	Load N	Load daN	Load Lbt	Displacement mm	Breaking mode
1/4	1738.6	173.9	391	5.33	Thread jumps

**Tests at temperature 80°C - 1/1**

**1/4**



**Result tests at -30°C**

Pedestal DPH-5 - PH5 – H 175mm – Tests 1/1 and 1/4



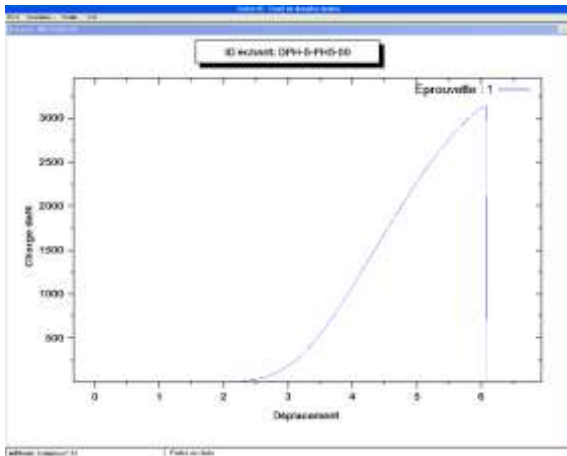
**Tests at temperature -30°C**

Sample	Load N	Load daN	Load lbt	Displacement mm	Breaking mode
1/1	31397.9	3139.8	7058	3.74	Break

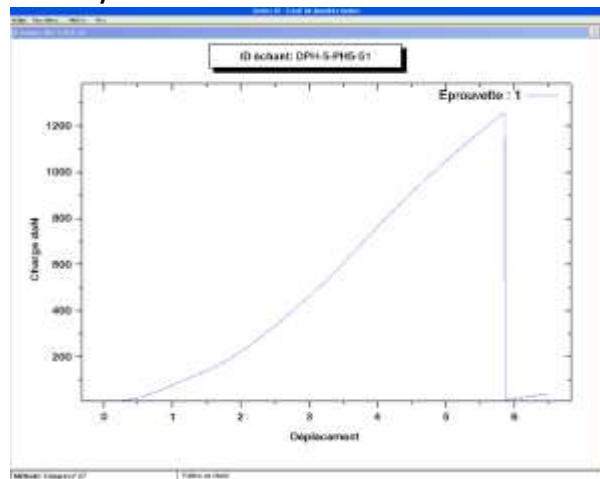
**Tests at temperature -30°C**

Sample	Load N	Load daN	Load lbt	Displacement mm	Breaking mode
1/4	12571.9	1257.2	2829	5.50	Break

**Tests at temperature -30°C - 1/1**



**1/4**



**Nb:** Tests results are valid only for the tested samples