



## Summary of Test Results

Customer : Wah Hung Fire Prevention Equipment Co., Limited  
Address : G/F., No. 75 Bedford Road, Tai Kok Tsui, Kowloon, Hong Kong  
Sample description : DN150 (6") Pedestal Street Fire Hydrant  
Nominal pressure (PN) : 16  
Manufacturer : Wah Nan Fire Fighting Equipment Co., Ltd.  
Brand name : WAH HUNG  
Item no. : WH021  
Origin : China  
Specification : 1) Water Supplies

FU HO MAN  
Assistant Technical Manager

CHERRY WAI  
Technical Manager



Test Report  
 Dimensions Check of Fire Hydrant  
 (In-house method)

2022

2022

2022

Fire Prevention Equipment Co., Limited  
 Seafoord Road, Tai Kok Tsui, Kowloon, Hong Kong

Castco LRN : NW0190110-002

Customer's ref. no. : --  
 Contract no. : --

1150 (6") Pedestal Suction Fire Hydrant  
 1150

Fire Fighting Equipment Co., Limited  
 NO

Water Supplies Department Drawing Reference WSD 1.54  
 1041 : Part 1 : 1987  
 136 : 2010  
 Yeh Hung Fire Prevention Equipment Co., Limited

10 January 2019

Date of test : 10 January 2019

Specimen no.		NW0190110-002
DN (mm)		150
Inch		6"
Measured mean value		150
Requirement		150
Measured mean value		240
Requirement		240
Measured mean value		Ø22
Requirement		Ø22
Measured mean value		285
Requirement		285
Measured mean value		30
Requirement		30
Measured mean value		130
Requirement		130
Measured mean value		740
Requirement		740
Measured mean value		291
Requirement		291
Measured mean value		150
Requirement		150
Measured mean value		160
Requirement		160
Measured mean value		160
Requirement		160
Measured mean value		160
Requirement		160
Measured mean value		240
Requirement		240

This test report supersedes page no. 1 of the previous test report of Castco LRN : NW0190110-002 issued on  
 Amendment : "Dimensions Figure" in "Appendix A & B" were changed due to customer request.

公司

Hydrant LIMITED

Castco LRN : NW0190110-002

NW0190110-002
150
6"
190
190
572
572
63
63
100
100
119.80
119.83 (0 / -0.05)
150
150
113.90
113.89 (+0.05 / 0)
40
40
22
22
22
22
22
22
22
22
22
60
60
90
90
16
16
50
50
75
75
50
50
68
68

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Website: www.castco.com.hk

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Test Report  
Dimensions Check of Fire Hydrant  
(In-house method)

Date of issue : 02 April 2022

Page 3B of 7 page(s)

Castco LRN : NW0190110-002

Laboratory test results (con't)

Specimen no.		NW0190110-002
DN (mm)		150
Inch		6"
a (mm)	Measured mean value	57
	Requirement	57
b (mm)	Measured mean value	78.93
	Requirement	78.96 (0 / -0.05)
c (mm)	Measured mean value	110
	Requirement	110
d (mm)	Measured mean value	69.88
	Requirement	69.85 (+0.05 / 0)
e (mm)	Measured mean value	45
	Requirement	45
f1 (mm)	Measured mean value	22
	Requirement	22
f2 (mm)	Measured mean value	22
	Requirement	22
g1 (mm)	Measured mean value	22
	Requirement	22
g2 (mm)	Measured mean value	22
	Requirement	22
h (mm)	Measured mean value	60
	Requirement	60
i (mm)	Measured mean value	90
	Requirement	90
j (mm)	Measured mean value	16
	Requirement	16
k (mm)	Measured mean value	75
	Requirement	75
m (mm)	Measured mean value	50
	Requirement	50

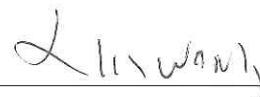
Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of Water Supplies Department Drawing Reference WSD 1.54 & BS 336 : 2010.
3. This page no. 3B of this test report supersedes page no. 3A of the previous test report of Castco LRN : NW0190110-002 issued on 02 May 2019 with amendment : "Dimensions Figure" in "Appendix A & B" were changed due to customer request.

Checked by :

 **FU HO MAN**  
Assistant Technical Manager

Certified by :

 **WONG KA MAN**  
Senior Manager

Test Report  
Hydrostatic Test of Fire Hydrant  
(In-house method)

Date of issue : 02 May 2019

Page 4A of 7 page(s)

Castco I.R.N. : NW0190110-002

Castco I.R.N. : NW0190110-002

Customer:  
Fire Prevention Equipment Co., Limited  
100-102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000  
165 Pedestal Street Fire Hydrant  
Fire Fighting Equipment Co., Ltd.

Customer's ref. no. : --  
Contract no. : --

**Details as supplied by customer**

Customer : Wah Hung Fire Prevention Equipment Co., Limited  
Address : G.F., No. 75 Bedford Street, Hong Kong  
Job title : --  
Sample description : DN150  
Nominal pressure (PN) : 16  
Manufacturer : Wah Nan Fire Fighting Equipment Co., Ltd.  
Brand name : WAH HUNG  
Item no. : WH021  
Origin : China

項目	單位	數值
試驗壓力 (MPa)	MPa	16.0
試驗時間 (min)	min	30
試驗溫度 (°C)	°C	23
試驗介質		清水
試驗結果		無滲漏現象

項目	單位	數值
試驗壓力 (MPa)	MPa	16.0
試驗時間 (min)	min	30
試驗溫度 (°C)	°C	23
試驗介質		清水
試驗結果		無滲漏現象

試驗結果符合  
試驗標準  
試驗日期: 2019年5月2日  
試驗地點: 本公司試驗室

試驗結果符合  
試驗標準  
試驗日期: 2019年5月2日  
試驗地點: 本公司試驗室

試驗員: [Signature]

試驗員: [Signature]

試驗員: [Signature]

## Test Report

Tensile Properties of Spheroidal Graphite Cast Iron  
(BS EN 1561 : 2011 Clause 7.2 and 9.1 Table 1)

Date of issue : 02 May 2019

Page 5A of 7 page(s)

Castco LRN : NW0190110-002

Details as supplied by customerCustomer : Wah Hung Fire Prevention Equipment Co., Limited  
Address : G/F., No. 75 Bedford Road, Tai Kok Tsui, Kowloon, Hong Kong  
Job title : - -

Customer's ref. no. : - -

Contract no. : - -

Sample description : DN150 (6") Pedestal Street Fire Hydrant

Nominal pressure (PN) : 16

Manufacturer : Wah Nan Fire Fighting Equipment Co., Ltd.

Brand name : WAH HUNG

Item no. : WH021

Origin : China

Specification : 1) Water Supplies Department Drawing Reference WSD 1.54  
2) BS 5041 : Part 1 : 1987  
3) BS 336 : 2010

Sample submitted by : Wah Hung Fire Prevention Equipment Co., Limited

Laboratory test results

Date of sample received : 29 March 2019

Date of test : 13 April 2019

Specimen no.	NW0190110-002	
DN (mm)	150	
Inch	6"	
Steel grade	EN-GJL-250	
Total specimen length (mm)	200	
Area (mm <sup>2</sup> )	78.85	
Tensile (MPa)	Strength	286
	Requirement	250 to 350
Test results	Passed	

## Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 1561 : 2011 Table 1.
3. This page no. 5A of test report of Castco LRN : NW0190110-002 is a New Page added after test report issued.

Checked by : \_\_\_\_\_



**FU HO MAN**  
Assistant Technical Manager

Certified by : \_\_\_\_\_



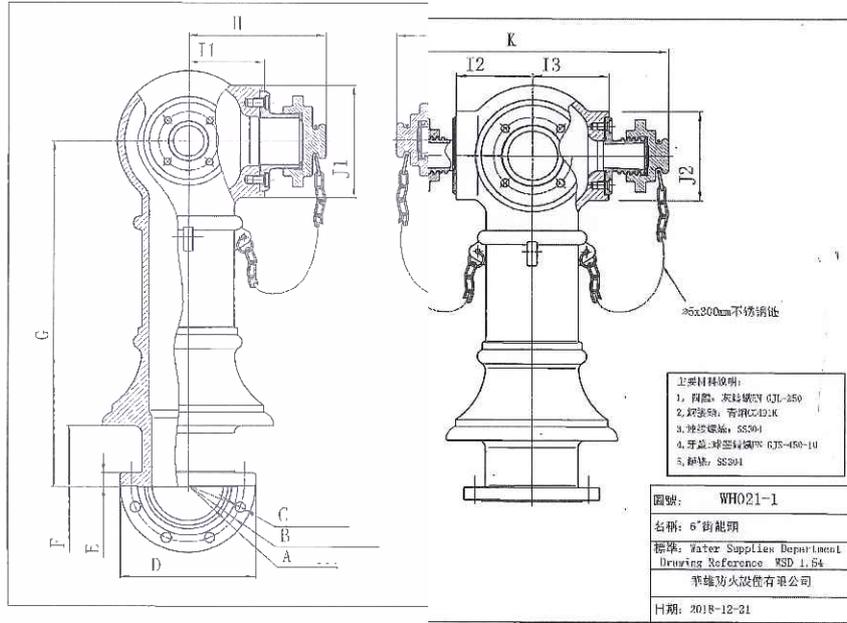
**LIU KA WAI**  
Technical Manager

Test Report  
Dimensions Check of Fire Hydrant  
(In-house method)

Date of issue : 02 April 2022  
Page 6B of 7 page(s)

Castco LRN : NW0190110-002

Appendix A



NW0190110-2(Dimensions Figure-1)

Remark(s) :

- This page no. 6B of this test report supersedes page no. 6A of the previous test report of Castco LRN : NW0190110-002 issued on 02 May 2019 with amendment : "Dimensions Figure" was changed due to customer request.



**Test Report****Chemical Analysis of Copper and Copper Alloy**

Date of issue: 26-04-2019

Page 1 of 2

Castco LRN: MS0190401-42

Details as supplied by customer

Name of Customer : Wah Hung Fire Prevention Equipment Co., Limited

Address : G.F. No. 75 Bedford Road, Tai Kok Tsui, Kowloon

Job Title : --

Contract No. : --

Customer's Ref. No. : --

Sample details as supplied by customer

Date Sampled : --

Date of Sample Received : 01-04-2019

Test Period : 11-04-2019

Sample Description : DN150(6") Pedestal Street Fire Hydrant

Specification : BS EN 1982:2008, Table 23b, Grade CC491K

Specimen No. : NW0190110-002

Item No. : WH021

Location of Work : -- Brand name : WAH HUNG Origin : China

Manufacturer: Wah Nan Fire Fighting Equipment Co., Ltd.

Test Method(s):-

1. In House Method: NI Multi 4 (Spark OES)

Remark:

1. Test results are only for the lot/line of specimen tested.

Checked by:



 Capelin Cheung  
 Senior Laboratory Assistant

Approved by:



 Cheng Chi Tang  
 Senior Laboratory Assistant

**Test Report****Chemical Analysis of Copper and Copper Alloy**

Date of issue: 26-04-2019

Page 2 of 2

Castco LRN: MS0190401-42

Chemical Analysis		Result
<sup>1)</sup> Aluminium	Al %	<0.003
<sup>1)</sup> Iron	Fe %	0.053
<sup>1)</sup> Nickel	Ni %	0.37
<sup>1)</sup> Phosphorus	P %	<0.003
<sup>1)</sup> Lead	Pb %	4.08
<sup>1)</sup> Sulphur	S %	0.032
<sup>1)</sup> Antimony	Sb %	0.023
<sup>1)</sup> Silicon	Si %	0.002
<sup>1)</sup> Tin	Sn %	4.14
<sup>1)</sup> Zinc	Zn %	5.63
<sup>1)</sup> Copper	Cu %	85.6

**End of Report**

Form No. CHM Cu&amp;Cu Alloy-3 T.dl 03/02/2016

