



Discover Industries  
 2817 Janitell Road  
 Colorado Springs, CO 80906  
 Metallurgical Test Report

XL2-116540

Mode General Metals  
 Time 2025-06-24 14:37  
 Duration 4.22  
 Units %  
 Sigma Value 2  
 Sequence Final  
 Alloy1 SS-316 : \*1.68  
 SAMPLE DISCOVER.75  
 HEAT  
 NOTE

**Discover Valve 100092**  
**3/4" 1000WOG Ball Valve**



Element	%
Mo	2.220
Ni	10.331
Fe	69.903
Cr	17.331

ACCEPTABLE CHEMICAL COMPOSITION		
316SS / CF8M		
ELEMENT	%	
Mo	2-3%	
Ni	10-14%	
Fe	65-70%	
Cr	16-18%	

Tested By: Cody C. WOS



Discover Industries  
 2817 Janitell Road  
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XL2-116540

Mode General Metals  
 Time 2025-06-24 14:39  
 Duration 1.02  
 Units %  
 Sigma Value 2  
 Sequence Final  
 Alloy1 SS-316 : 1.46  
 SAMPLE APOLLO.75  
 HEAT  
 NOTE

**Apollo AV76F10401A**  
**3/4" 1000WOG Ball Valve**



Element	%
Mo	1.790
Ni	11.881
Fe	67.197
Cr	17.532

ACCEPTABLE CHEMICAL COMPOSITION		
316SS / CF8M		
ELEMENT	%	
Mo	2-3%	
Ni	10-14%	
Fe	65-70%	
Cr	16-18%	

Tested By: Cody C. WOS



DISCOVERVALVE.COM

719-434-1727

Discover Industries  
 2817 Janitell Road  
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 Metallurgical Test Report

XL2-116540

Mode General Metals  
 Time 2025-06-24 14:40  
 Duration 0.95  
 Units %  
 Sigma Value 2  
 Sequence Final  
 Alloy1 SS-316 : 2.16  
 SAMPLE D I X O N .75  
 HEAT  
 NOTE

**Dixon SSBV75**  
**3/4" 1000WOG Ball Valve**



Element	%
Mo	2.291
Ni	9.383
Fe	69.629
Cr	18.695

ACCEPTABLE CHEMICAL COMPOSITION		
316SS / CF8M		
ELEMENT	%	
Mo	2-3%	
Ni	10-14%	
Fe	65-70%	
Cr	16-18%	

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719-434-1727

XL2-116540

Mode General Metals  
 Time 2025-06-24 14:42  
 Duration 3.20  
 Units %  
 Sigma Value 2  
 Sequence Final  
 Alloy1 SS-316 : 1.50  
 SAMPLE JOMAR.75  
 HEAT  
 NOTE

**Jomar JO100904**  
**3/4" 1000WOG Ball Valve**



Element	%
Mo	2.034
Ni	9.743
Fe	70.976
Cr	16.454

ACCEPTABLE CHEMICAL COMPOSITION		
316SS / CF8M		
ELEMENT	%	
Mo	2-3%	
Ni	10-14%	
Fe	65-70%	
Cr	16-18%	

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XL2-116540

Mode General Metals  
 Time 2025-06-24 14:43  
 Duration 16.60  
 Units %  
 Sigma Value 2  
 Sequence Final  
 Alloy1 No Match : \*5.00  
 SAMPLE AMAZON.75  
 HEAT  
 NOTE **Amazon Brand**  
**3/4" 1000WOG Ball Valve**



Element	%
Mo	<LOD
Ni	1.729
Fe	81.185
Cr	12.540

ACCEPTABLE CHEMICAL COMPOSITION		
316SS / CF8M		
ELEMENT	%	
Mo	2-3%	
Ni	10-14%	
Fe	65-70%	
Cr	16-18%	

Tested By: Cody C. WOS



Discover Industries  
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XL2-116540

Mode General Metals  
 Time 2025-06-24 14:46  
 Duration 1.04  
 Units %  
 Sigma Value 2  
 Sequence Final  
 Alloy1 SS-316 : 2.06  
 SAMPLE DISCOVER\_1  
 HEAT  
 NOTE

**Discover Valve 100093**  
**1" 1000WOG Ball Valve**



Element	%
Mo	2.186
Ni	10.539
Fe	71.657
Cr	17.415

ACCEPTABLE CHEMICAL COMPOSITION		
316SS / CF8M		
ELEMENT	%	
Mo	2-3%	
Ni	10-14%	
Fe	65-70%	
Cr	16-18%	

Tested By: Cody C. WOS



# DISCOVER INDUSTRIES, INC.

## DISCOVER VALVE

DISCOVERVALVE.COM

719-434-1727

Discover Industries  
2817 Janitell Road  
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Metallurgical Test Report

XL2-116540

Mode	General Metals
Time	2025-06-24 14:47
Duration	14.55
Units	%
Sigma Value	2
Sequence	Final
Alloy1	SS-316 : *2.05
SAMPLE	APOLLO_1
HEAT	
NOTE	<b>Apollo AV76F10501A</b> <b>1" 1000WOG Ball Valve</b>



Element	%
Mo	2.334
Ni	10.533
Fe	67.504
Cr	18.232

ACCEPTABLE CHEMICAL COMPOSITION		
316SS / CF8M		
ELEMENT	%	
Mo	2-3%	
Ni	10-14%	
Fe	65-70%	
Cr	16-18%	

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Discover Industries  
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XL2-116540

Mode General Metals  
 Time 2025-06-24 14:49  
 Duration 10.25  
 Units %  
 Sigma Value 2  
 Sequence Final  
 Alloy1 SS-316 : \*2.39  
 SAMPLE D IX ON \_1  
 HEAT  
 NOTE **Dixon SSBV100**  
**1" 1000WOG Ball Valve**



Element	%
Mo	2.169
Ni	8.996
Fe	69.959
Cr	17.612

ACCEPTABLE CHEMICAL COMPOSITION		
316SS / CF8M		
ELEMENT	%	
Mo	2-3%	
Ni	10-14%	
Fe	65-70%	
Cr	16-18%	

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XL2-116540

Mode General Metals  
 Time 2025-06-24 14:50  
 Duration 0.95  
 Units %  
 Sigma Value 2  
 Sequence Final  
 Alloy1 SS-316 : 1.70  
 SAMPLE JOMAR\_1  
 HEAT  
 NOTE

**Jomar JO100905**  
 1" 1000WOG Ball Valve



Element	%
Mo	2.431
Ni	10.207
Fe	71.904
Cr	15.455

ACCEPTABLE CHEMICAL COMPOSITION		
316SS / CF8M		
ELEMENT	%	
Mo	2-3%	
Ni	10-14%	
Fe	65-70%	
Cr	16-18%	

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Discover Industries  
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XL2-116540

Mode General Metals  
 Time 2025-06-24 14:51  
 Duration 6.03  
 Units %  
 Sigma Value 2  
 Sequence Final  
 Alloy1 No Match : \*4.73  
 SAMPLE AMAZON\_1  
 HEAT  
 NOTE

**Amazon Brand**  
 1" 1000WOG Ball Valve



Element	%
Mo	<LOD
Ni	1.246
Fe	80.958
Cr	13.147

ACCEPTABLE CHEMICAL COMPOSITION		
316SS / CF8M		
ELEMENT	%	
Mo	2-3%	
Ni	10-14%	
Fe	65-70%	
Cr	16-18%	

Tested By: Cody C. WOS