

# Independent Tests of Anti-Virus Software



## Anti-Phishing Protection in AVs and Browsers

TEST PERIOD: NOVEMBER 2022  
LAST REVISION: 7<sup>TH</sup> DECEMBER 2022

COMMISSIONED BY: AVAST

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## Introduction

This test evaluates the phishing-page detection rates and false positive rates at time of testing (November 2022) of various AV products, and different browsers, as listed below. This comparative test was commissioned by Avast.

## Tested products

The test took place from 11<sup>th</sup> November till 24<sup>th</sup> November 2022. The following up-to-date products were tested in parallel, and with active Internet/cloud-access, on Windows 10. Phishing protection provided by AV products were tested using Google Chrome (with Google SafeBrowsing disabled). The browser extensions of the AV products were installed and enabled. The different browsers were tested without an AV program running. Avast selected the products to be tested. We purchased these in January 2022.

### Antivirus (AV) Products:

- Avast Free Antivirus 22.10
- Avast One Essential 22.10
- Avira Free Security 1.1
- Bitdefender Internet Security 26.0
- ESET Internet Security 16.0
- Kaspersky Internet Security 21.3
- Malwarebytes Premium 4.5
- McAfee Total Protection 16.0
- Microsoft Defender 4.18 with Defender browser plugin for Chrome
- NortonLifeLock Norton 360 22.22

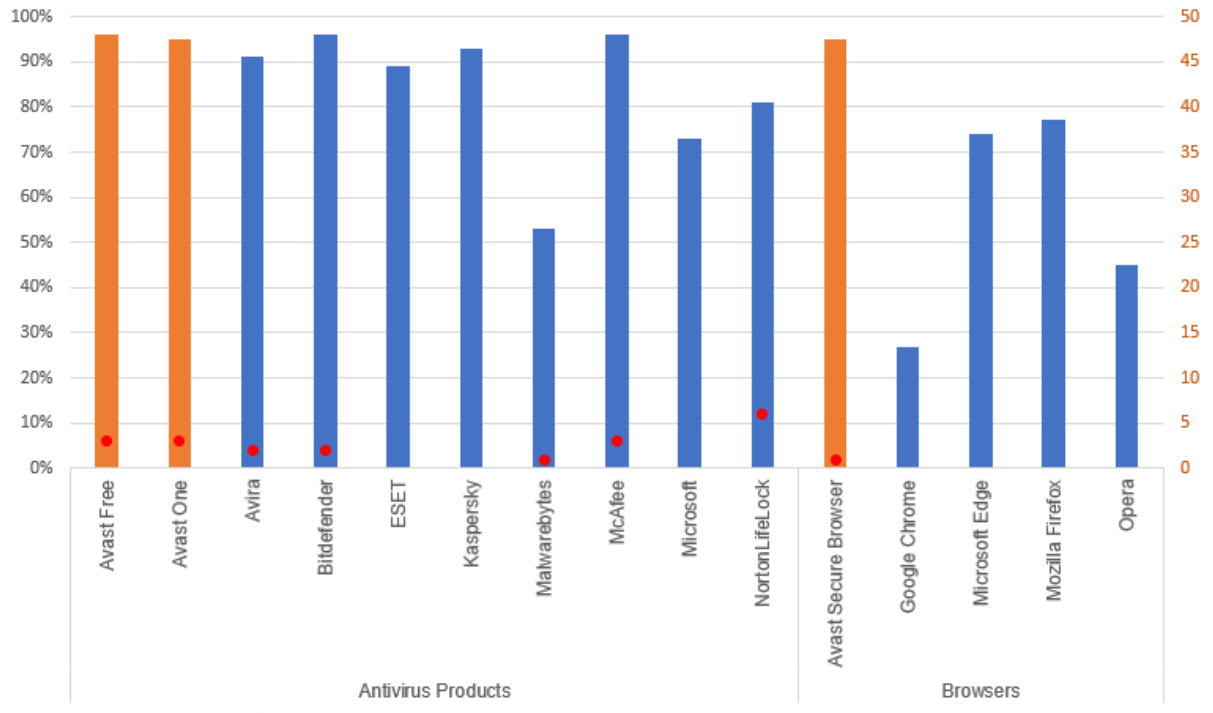
### Browsers:

- Avast Secure Browser 106.0 - 107.0
- Google Chrome 107.0 with SafeBrowsing
- Microsoft Edge 107.0
- Mozilla Firefox 106.0
- Opera 92.0

## Anti-Phishing Test-Set

For this first test, we used **253** valid phishing URLs. The number of used clean URLs for false alarm detection was 250.

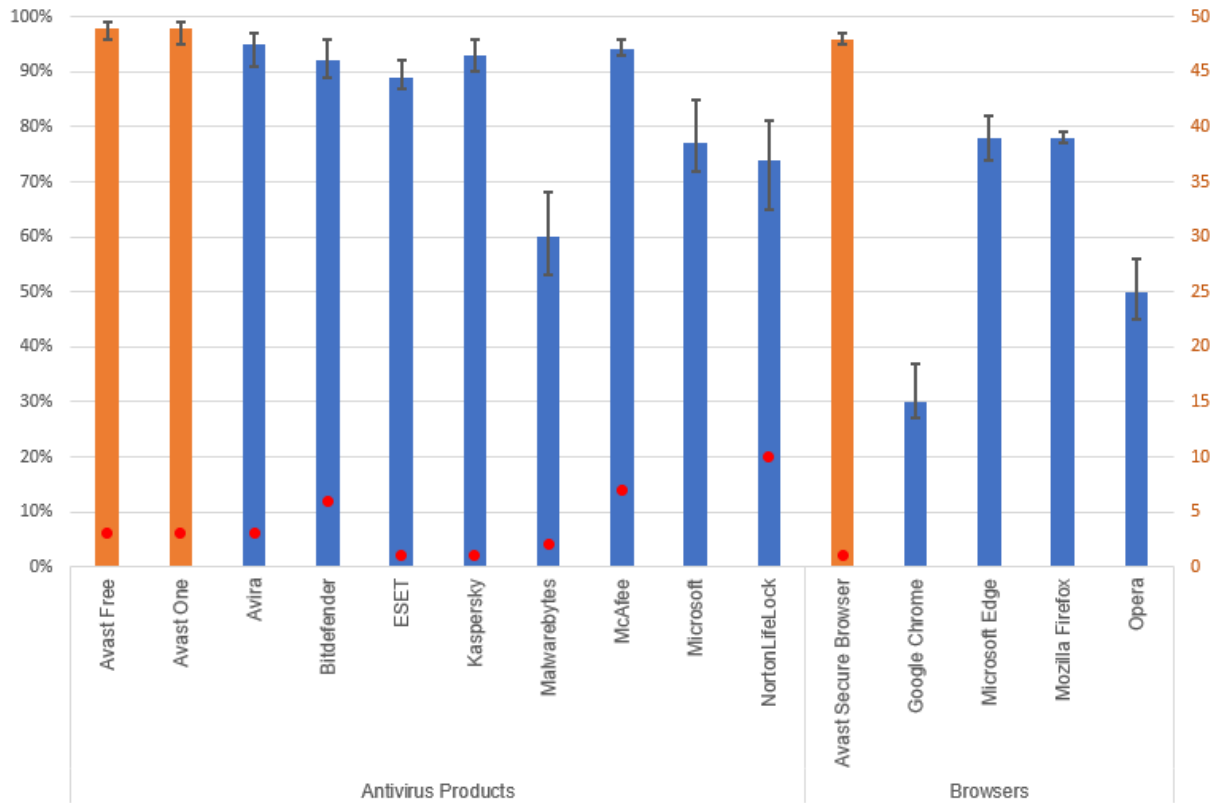
### Test Results



	Product	Block Rate	False Alarms
AVs	Avast Free Antivirus	96%	3
	Avast One Essential	95%	3
	Avira Free Security	91%	2
	Bitdefender Internet Security	96%	2
	ESET Internet Security	89%	0
	Kaspersky Internet Security	93%	0
	Malwarebytes Premium	53%	1
	McAfee Total Protection	96%	3
	Microsoft Defender with Chrome Plugin	73%	0
	NortonLifeLock Norton 360	81%	6
Browsers	Avast Secure Browser	95%	1
	Google Chrome	27%	0
	Microsoft Edge	74%	0
	Mozilla Firefox	77%	0
	Opera	45%	0

## Overall results for the year

This test is the fourth in a series that covered all four quarters of 2022. In total, 1,009 valid phishing URLs were tested over the four quarters, with results published in January, April, August, November. Below is a summary of the overall results for 2022. The grey lines at the top of each bar show the highest and lowest scores by the respective product over the course of the year.



Product	Block Rate Q1	Block Rate Q2	Block Rate Q3	Block Rate Q4	Block Rate (SUM)	False Alarms (SUM)	
<b>AVs</b>	Avast Free Antivirus	99%	99%	97%	96%	98%	3
	Avast One Essential	99%	99%	97%	95%	98%	3
	Avira Free Security	97%	95%	95%	91%	95%	3
	Bitdefender Internet Security	89%	92%	91%	96%	92%	6
	ESET Internet Security	87%	88%	92%	89%	89%	1
	Kaspersky Internet Security	90%	96%	92%	93%	93%	1
	Malwarebytes Premium	61%	68%	58%	53%	60%	2
	McAfee Total Protection	93%	93%	94%	96%	94%	7
	Microsoft Defender with Chrome Plugin	77%	85%	72%	73%	77%	0
	NortonLifeLock Norton 360	70%	65%	80%	81%	74%	10
<b>Browsers</b>	Avast Secure Browser	95%	97%	97%	95%	96%	1
	Google Chrome	34%	31%	29%	27%	30%	0
	Microsoft Edge	80%	82%	76%	74%	78%	0
	Mozilla Firefox	77%	79%	78%	77%	78%	0
	Opera	56%	52%	47%	45%	50%	0

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