

Results of Performance Testing to the Diamond Verification Instrument Standard

Test Stone Sets used to Assess Performance

Loose, Polished Stone Test Sets	Diamond	Synthetic Diamond	Diamond Simulant
Primary Set (>2.00 mm, D-J colour) 748 diamonds, 150 synthetic diamonds and 148 diamond simulants	☒	☒	☐
Supp. Set A (>2.00 mm, D-J colour) 249 diamonds	☒		
Supp. Set AB (>2.00 mm, D-J colour) 50 synthetic diamonds, 47 diamond simulants		☒	☐

Results of instrument stone assessment testing of Primary and A&AB Combined - Expert

Test Property	Results for Loose, Polished Stone Test Sets
	Primary and A&AB Combined
Diamond accuracy (%)	97.5
Synthetic diamond accuracy (%)	100.0
Diamond referral rate (%)	na ^[1]
Synthetic diamond referral rate (%)	na ^[1]
Diamond false positive rate (%)	0.0
Synthetic diamond false positive rate (%)	2.5
Diamond false negative rate (%)	2.5
Synthetic diamond false negative rate (%)	0.0