



**Cerium-grade cutting power
with zirconia's stability**

ZSH-7000A

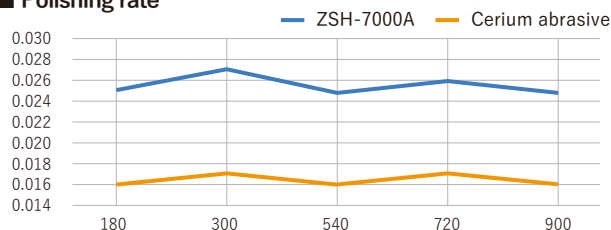
Zirconia abrasive for hard glass

Taiyo Koko / Nagata Original

Comparison of ZSH-7000A and cerium abrasive

S-LAL14

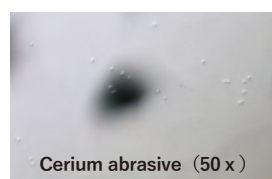
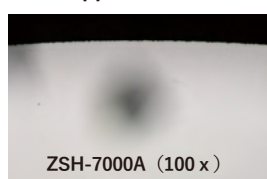
■ Polishing rate



Polishing rate per minute ZSH:0.0085 (g/min) Cerium:0.0055 (g/min)
Rate comparison with cerium abrasive ZSH: 1.625 times that of cerium (g)

	180"	360"	540"	720"	900"
ZSH-7000A	0.025	0.027	0.025	0.026	0.025
Cerium abrasive	0.016	0.017	0.016	0.017	0.016

■ Lens appearance

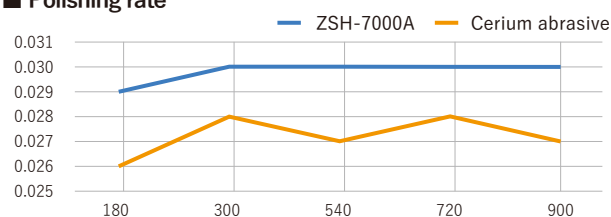


■ Surface roughness (S-LAL14 center)

	PV (nm)	Ra (nm)	RMS (nm)
ZSH-7000A	7.643	1.198	1.346
Cerium abrasive	7.050	1.261	1.555

TAFD30

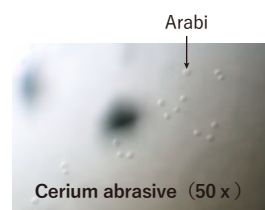
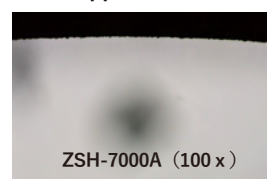
■ Polishing rate



Polishing rate per minute ZSH:0.0099 (g/min) Cerium:0.0091 (g/min)
Rate comparison with cerium abrasive ZSH: 1.1 times that of cerium (g)

	180"	360"	540"	720"	900"
ZSH-7000A	0.029	0.030	0.030	0.030	0.030
Cerium abrasive	0.026	0.028	0.027	0.028	0.027

■ Lens appearance



■ Surface roughness (TAFD30 center)

	PV (nm)	Ra (nm)	RMS (nm)
ZSH-7000A	7.307	1.070	1.343
Cerium abrasive	9.037	1.343	1.688

S-NBH56

■ Polishing power/Appearance Water:Abrasive = 6790cc:210g

ZSH-7000A	Weight (g)	Wear amount (g)	Appearance	Liquid temperature
0	69.491	—	—	23
180"	69.460	0.031	B	24
360"	69.429	0.031	B	24
540"	69.398	0.031	C above	24
720"	69.367	0.031	B	24
900"	69.335	0.032	C above	24

Average value 0.031 1-min. rate 0.010

Cerium abrasive	Weight (g)	Wear amount (g)	Appearance	Liquid temperature
0	69.305	—	—	22
180"	69.276	0.029	Arabi	22
360"	69.245	0.031	Arabi	23
540"	69.213	0.032	Arabi	23
720"	69.180	0.033	Arabi	24
900"	69.147	0.033	Arabi	24

Average value 0.032 1-min. rate 0.011

S-LAH99W

■ Polishing power/Appearance Water:Abrasive = 6790cc:210g

ZSH-7000A	Weight (g)	Wear amount (g)	Appearance	Liquid temperature
0	99.684	—	—	24
180"	99.663	0.021	B	25
360"	99.640	0.023	B	25
540"	99.619	0.021	B	25
720"	99.597	0.022	B	25
900"	99.574	0.023	B	25

Average value 0.022 1-min. rate 0.007

Cerium abrasive	Weight (g)	Wear amount (g)	Appearance	Liquid temperature
0	99.561	—	—	24
180"	99.545	0.016	Arabi	24
360"	99.530	0.015	Arabi	25
540"	99.515	0.015	Arabi	25
720"	99.499	0.016	Arabi	25
900"	99.484	0.015	Arabi	25

Average value 0.015 1-min. rate 0.005

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