



Ceramic Gas Nozzles

■ Introduction

Innovacera Advanced Ceramic Welding Nozzles, including Ceramic Gas Nozzles for TIG, Plasma Cutting Ceramic Nozzles, Ceramic Gas Diffusor For MIG/MAG, made from the highest grade alumina, present high spatter resistance, high heat resistance, high strength, good insulating ability and excellent corrosion resistance in a wide range of operating temperatures and conditions, and suit the highest demands of industrial applications with the combination of its technical features.



■ Features

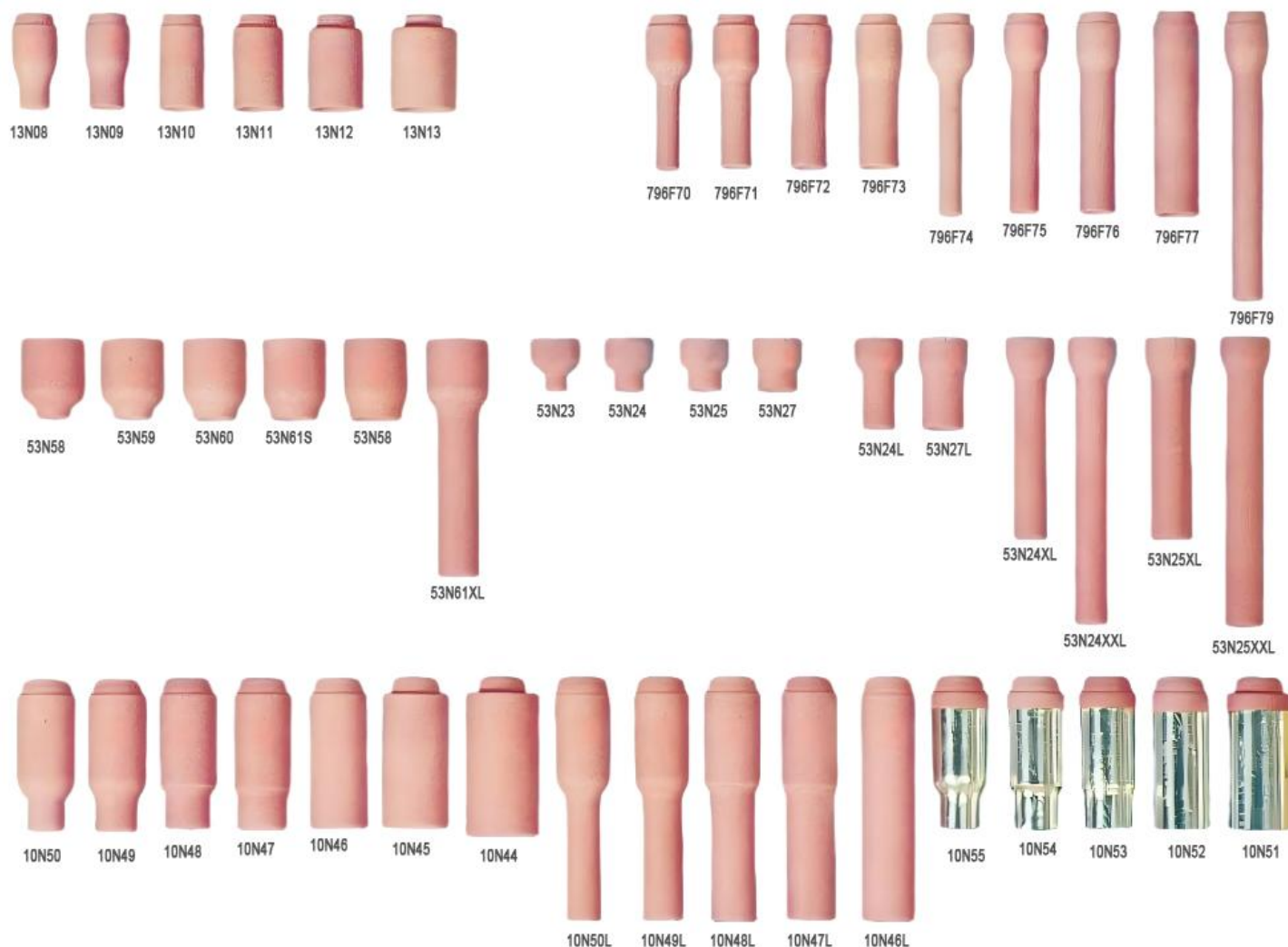
- Heat-resistant,
- Corrosion-resistant and highly insulating
- High strength

Item		Test Condition	Unit	95% Al ₂ O ₃	Inspection Standard
Density		-	g/cm ³	≥3.70	GB/T 25995-2010
Mechanical Property	Vickers Hardness	HV1	GPa	12	GB/T 16534-2009
	Flexure Strength	-	MPa	350	GB/T 6569-2006
Thermal Property	Coefficient of Linear Thermal Expansion	40°C~400°C	x10 ⁻⁶ /°C	7.2	GB/T 16535-2008
		40°C~800°C		7.5	
	Thermal Conductivity	25°C	W/(m·K)	23	GB/T 5598-2015
Electrical Properties	Volume Resistivity	20°C	Ω·cm	>10 ¹⁴	GB/T 5593-2015
		300°C		>10 ¹⁰	
		500°C		>10 ⁸	
	Breakdown Strength	-	kV/mm	>15	
	Dielectric Constant	1MHz	-	9.5	
	Dielectric Loss	1MHz	x10 ⁻⁴ /°C	4	

Material Properties



■ Ceramic Gas Nozzles (International Standard)



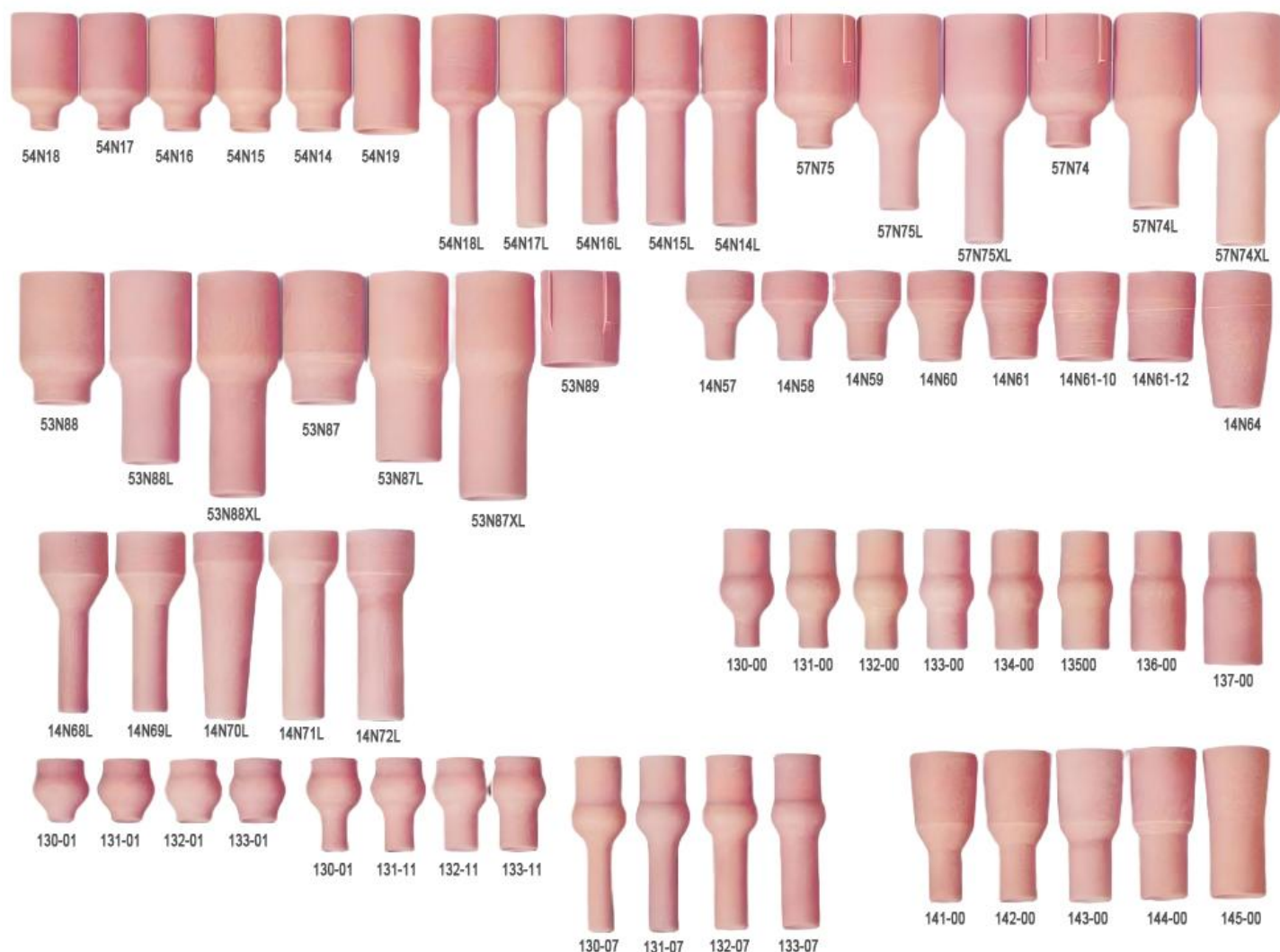
Original NO.	P/N	Size	Specification (mm)	Torch
13N08	070501200001	4	D6.5 x 30	9/20
13N09	070501200002	5	D8.0 x 30	9/20
13N10	070501200003	6	D9.5 x 30	9/20
13N11	070501200004	7	D11.0 x 30	9/20
13N12	070501200005	8	D12.5 x 30	9/20
13N13	070501200006	10	D16.0 x 30	9/20
796F70	070501200007	3	D4.0 x 48	9/20
796F71	070501200008	4	D6.5 x 48	9/20
796F72	070501200009	5	D8.0 x 48	9/20
796F73	070501200010	6	D9.5 x 48	9/20

Original NO.	P/N	Size	Specification (mm)	Torch
796F74	070501200011	3	D4.0 x 63	9/20
796F75	070501200012	4	D6.5 x 63	9/20
796F75	070501200013	5	D8.0 x 63	9/20
796F77	070501200014	6	D9.5 x 63	9/20
796F79	070501200015	4	D6.5 x 89	9/20
53N58	070501200016	4	D6.5 x 25.5	9/20
53N59	070501200017	5	D8.0 x 25.5	9/20/24/25
53N60	070501200018	6	D9.5 x 25.5	9/20/24/25
53N61	070501200019	7	D11.0 x 25.5	9/20/24/25
53N61S	070501200096	8	D12.5 x 25.5	9/20/24/25
53N61XL	070501200097	7	D11.0 x 76	9/20/24/25
53N23	070501200020	3	D4.0 x 17	24
53N24	070501200021	4	D6.5 x 17	24
53N25	070501200022	5	D8.0 x 17	24
53N27	070501200023	6	D9.5 x 17	24
53N24L	070501200024	4	D6.5 x 29	24
53N27L	070501200025	6	D9.5 x 29	24
53N24XL	070501200026	4	D6.5 x 62	24
53N24XXL	070501200027	4	D6.5 x 92	24
53N25XL	070501200098	5	D8.0 x 62	24
53N25XXL	070501200099	5	D8.0 x 92	24
10N50	070501200028	4	D6.5 x 47	17/18/26
10N49	070501200029	5	D8.0 x 47	17/18/26
10N48	070501200030	6	D9.5 x 47	17/18/26
10N47	070501200031	7	D11.0 x 47	17/18/26
10N46	070501200032	8	D12.5 x 47	17/18/26
10N45	070501200033	10	D16.0 x 47	17/18/26
10N44	070501200034	12	D19.5 x 50	17/18/26
10N50L	070501200035	4	D6.5 x 76	17/18/26
10N49L	070501200036	5	D8.0 x 76	17/18/26
10N48L	070501200037	6	D9.5 x 76	17/18/26

Original NO.	P/N	Size	Specification (mm)	Torch
10N47L	070501200038	7	D11.0 x 76	17/18/26
10N46L	070501200100	8	D12.5 x 76	17/18/26
10N55	070501200039	5	D8.0 x 47	17/18/26
10N54	070501200040	6	D9.5 x 47	17/18/26
10N53	070501200041	7	D11.0 x 47	17/18/26
10N52	070501200042	8	D12.5 x 47	17/18/26
10N51	070501200043	10	D16.0 x 47	17/18/26



■ Ceramic Gas Nozzles (International Standard)



Original NO.	P/N	Size	Specification (mm)	Torch
54N18	070501200044	4	D6.5 x 42	17/18/26
54N17	070501200045	5	D8.0 x 42	17/18/26
54N16	070501200046	6	D9.5 x 42	17/18/26
54N15	070501200047	7	D11.0 x 42	17/18/26
54N14	070501200048	8	D12.5 x 42	17/18/26
54N19	070501200049	12	D19.0 x 42	17/18/26
54N18L	070501200050	4	D6.5 x 76	17/18/26
54N17L	070501200051	5	D8.0 x 76	17/18/26
54N16L	070501200052	6	D9.5 x 76	17/18/26
54N15L	070501200053	7	D11.0 x 76	17/18/26

Original NO.	P/N	Size	Specification (mm)	Torch
54N14L	070501200101	8	D12.5 x 76	17/18/26
57N75	070501200054	6	D9.5 x 48	17/18/26
57N75L	070501200102	6	D9.5 x 70	17/18/26
57N75XL	070501200103	6	D9.5 x 83	17/18/26
57N74	070501200055	8	D12.5 x 48	17/18/26
57N74L	070501200104	8	D12.5 x 70	17/18/26
57N74XL	070501200105	8	D12.5 x 83	17/18/26
53N88	070501200056	10	D16.0 x 48	17/18/26
53N88L	070501200106	10	D16.0 x 70	17/18/26
53N88XL	070501200107	10	D16.0 x 83	17/18/26
53N87	070501200057	12	D19.0 x 48	17/18/26
53N87L	070501200108	12	D19.0 x 70	17/18/26
53N87XL	070501200109	12	D19.0 x 83	17/18/26
53N89	070501200058	15	D24.0 x 34	17/18/26
14N57	070501200059	4	D6.5 x 32	10/12
14N58	070501200060	5	D8.0 x 32	10/12
14N59	070501200061	6	D9.5 x 32	10/12
14N60	070501200062	7	D11.0 x 32	10/12
14N61	070501200063	8	D12.5 x 32	10/12
14N61-10	070501200064	10	D16.0 x 32	10/12
14N61-12	070501200065	12	D19.0 x 32	10/12
14N64	070501200110	8	D12.5 x 50	10/12
14N68L	070501200066	4	D6.5 x 65	10/12
14N69L	070501200067	5	D8.0 x 65	10/12
14N70L	070501200068	6	D9.5 x 65	10/12
14N71L	070501200069	7	D11.0 x 65	10/12
130-00	070501200070	8	D12.5 x 65	10/12
130-00	070501200071	4	D6.5 x 43	TEC
131-00	070501200072	5	D8.0 x 43	TEC
132-00	070501200073	6	D9.5 x 43	TEC
133-00	070501200074	7	D11.0 x 43	TEC

Original NO.	P/N	Size	Specification (mm)	Torch
134-00	070501200075	8	D12.5 x 43	TEC
135-00	070501200076	9	D14.5 x 43	TEC
136-00	070501200077	10	D16.0 x 43	TEC
137-00	070501200078	12	D19.0 x 48	TEC
130-01	070501200079	4	D6.5 x 22	TEC
131-01	070501200080	5	D8.0 x 22	TEC
132-01	070501200081	6	D9.5 x 22	TEC
133-01	070501200082	7	D11.0 x 22	TEC
130-11	070501200083	4	D6.5 x 33	TEC
131-11	070501200084	5	D8.0 x 33	TEC
132-11	070501200085	6	D9.5 x 33	TEC
133-11	070501200086	7	D11.0 x 33	TEC
130-07	070501200087	4	D6.5 x 43	TEC
131-07	070501200088	5	D8.0 x 43	TEC
132-07	070501200089	6	D9.5 x 43	TEC
133-07	070501200090	7	D11.0 x 43	TEC
141-00	070501200091	5	D8.0 x 54	TEC
142-00	070501200092	6	D9.5 x 54	TEC
143-00	070501200093	7	D11.0 x 54	TEC
144-00	070501200094	8	D12.5 x 54	TEC
145-00	070501200095	10	D16.0 x 54	TEC

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Original NO.	P/N	Size	Specification (mm)	Torch
2304-0069	070501200111	4	D6.5 x 40	
2304-0070	070501200112	5	D8.0 x 40	
2304-0071	070501200113	4	D6.5 x 29	
2304-0072	070501200114	5	D8.0 x 29	
2304-0073	070501200115	6	D9.5 x 40	
2304-0074	070501200116	7	D11.0 x 40	
2304-0075	070501200117	4	D6.5 x 52	
2304-0076	070501200118	6	D9.5 x 52	
2304-0077	070501200119	8	D12.5 x 52	
2304-0078	070501200120	10	D16.0 x 52	
2304-0079	070501200121	4	D6.5 x 41	
2304-0080	070501200122	5	D8.0 x 41	
2304-0081	070501200123	6	D9.5 x 41	
2304-0082	070501200124	8	D12.5 x 41	

Original NO.	P/N	Size	Specification (mm)	Torch
2304-0083	070501200125	10	D16.0 x 41	
2304-0084	070501200126	4	D6.5 x 32	
2304-0085	070501200127	8	D12.5 x 32	
523-23008	070501200128	4	D6.5 x 38	
523-23010	070501200129	5	D8.0 x 38	
523-23012	070501200130	6	D9.5 x 38	
523-23014	070501200131	7	D11.0 x 38	
523-23016	070501200132	8	D12.5 x 38	
523-23018	070501200133	9	D14.5 x 38	
523-23108	070501200134	4	D6.5 x 19	
523-23110	070501200135	5	D8.0 x 19	
523-23112	070501200136	6	D9.5 x 19	
523-23114	070501200137	7	D11.0 x 19	
889688	070501200138	6	D9.5 x D27.5 x 38	
889689	070501200139	8	D12.5 x D27.5 x 38	
889690	070501200140	10	D16.0 x D27.5 x 38	
889699	070501200141	6	D9.5 x D30.2 x 40	
889700	070501200142	8	D12.5 x D30.2 x 40	
889701	070501200143	10	D16.0 x D30.2 x 40	
889705	070501200144	4	D6.5 x D24.5 x 68	
889706	070501200145	6	D9.5 x D24.5 x 68	
889707	070501200146	4	D6.5 x D24.5 x 42	
889708	070501200147	6	D9.5 x D24.5 x 42	
771.2171	070501200148		D6.5 x D10.0 x 32.7	Binzl
771.2173	070501200149		D10.6 x D10.0 x 32.7	Binzl
773.0082	070501200150		D10.0 x D16.0 x 41	Binzl
773.0083	070501200151		D13.0 x D16.0 x 41	Binzl
773.0084	070501200152		D15.0 x D16.0 x 41	Binzl
773.2171	070501200153		D7.5 x D16.0 x 55	Binzl
773.2172	070501200154		D10.0 x D16.0 x 55	Binzl
773.2173	070501200155		D13.0 x D16.0 x 55	Binzl

Original NO.	P/N	Size	Specification (mm)	Torch
776.0081	070501200156		D6.5 x D12.0 x 26	Binzl
776.0082	070501200157		D8.0 x D12.0 x 26	Binzl
776.0083	070501200158		D10.0 x D12.0 x 26	Binzl
776.0084	070501200159		D11.5 x D12.0 x 26	Binzl
776.2081	070501200160		D6.5 x D12.0 x 41	Binzl
776.2082	070501200161		D8.0 x D12.0 x 41	Binzl
776.2083	070501200162		D10.0 x D12.0 x 41	Binzl
776.2084	070501200163		D11.5 x D12.0 x 41	Binzl



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