

# STARTER ELECTRODES SELECTOR GUIDE

pH Electrodes							
Application	Sample Type	Recommendations	Double Junction	Standard	Economy/Basic	IP Rated	Micro
Education	Student Use	Epoxy body for added durability	ST260	-	ST210 / ST310	-	N/A
General Purpose	Most sample types	Suitable for general purpose measurements	ST260	ST350	ST310	-	N/A
Emulsions	Foods, cosmetics, oils	Open junction to prevent clogging	-	ST350	ST230	-	N/A
Flat Surfaces	Paper, cheese, meat, agar	Flat surface tip and double junction Ag/AgCl reference (no sample contact with silver)	-	STSURF	-	-	N/A
Biological/Pharmaceutical	TRIS buffer, proteins, enzymes	Double junction Ag/AgCl reference (no sample contact with silver)	ST260 / ST420	-	-	-	N/A
Low Ionic Strength	Treated effluent, deionized water, distilled water	Refillable for better contact and stable measurements	ST420	STPURE	-	-	N/A
Small Sample Size	Microtiter plates, test tubes, small flasks and beakers as small as 0.2 mL	Small diameter to fit into narrow sample containers	N/A	N/A	N/A	-	STMICRO8
Small Sample Size	TRIS buffer, proteins, sulfides, fits 96 microwell plates	Small diameter to fit into narrow sample containers	N/A	N/A	N/A	-	STMICRO5
Viscous Liquids	Slurries, suspended solids, sludges	Open junction to prevent the electrode from clogging	-	ST350	ST230 / ST280	-	N/A
Waters	Acid rain, boiler feed water, distilled water, rain water,	Double junction Ag/AgCl reference and refillable for better contact	ST260	-	-	-	N/A
Waters	Drinking water, tap water	Epoxy body for added durability	-	ST350	ST310	-	N/A
Waters	Wastewater, seawater	Double junction Ag/AgCl reference and epoxy body for added durability	-	ST270 / ST272	ST230	-	N/A
Harsh Environments	Field or plant use, rugged use	Epoxy body for added durability and polymer or gel filled for easy maintenance	-	ST322	ST320	ST320 IP67	N/A
High Ionic Strength	Acids, bases, brines, pH > 12 or pH < 2	Open junction for better contact and stable measurements	-	-	ST230	-	N/A
Soft Samples	Piercing fruits, cheese and meats	Spear tip for piercing samples	-	ST270	-	-	N/A

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Application	Sample Type	Recommendations	ORP Electrodes		Conductivity Electrodes		Dissolved Oxygen Electrodes	
Education	Student use	Epoxy body for added durability	-	STORP1	STCON3	-	STDO11	-
General Purpose	Most sample types	Suitable for general purpose measurements	-	STORP1	STCON3	-	STDO11	-
Emulsions	Foods, cosmetics, oils	Open junction to prevent clogging	-	N/A	-	N/A	-	STDO21
Flat Surfaces	Paper, cheese, meat, agar	Flat surface tip and double junction Ag/AgCl reference (no sample contact with silver)	-	N/A	-	STCON7	-	STDO21
Biological/ Pharmaceutical	TRIS buffer, proteins, enzymes	Double junction Ag/AgCl reference (no sample contact with silver)	-	N/A	-	STCON7	-	N/A
Low Ionic Strength	Treated effluent, deionized water, distilled water	Refillable for better contact and stable measurements	-	N/A	STCON3	STCON8	-	STDO21
Small Sample Size	Microtiter plates, test tubes, small flasks and beakers as small as 0.2 mL	Small diameter to fit into narrow sample containers	-	N/A	-	N/A	-	N/A
Small Sample Size	TRIS buffer, proteins, sulfides, fits 96 microwell plates	Small diameter to fit into narrow sample containers	-	N/A	-	N/A	-	N/A
Viscous Liquids	Slurries, suspended solids, sludges	Open junction to prevent the electrode from clogging	-	N/A	-	N/A	-	STDO21
Waters	Acid rain, boiler feed water, distilled water, rain water,	Double junction Ag/AgCl reference and refillable for better contact	-	STORP1	STCON3	-	STDO11	-
Waters	Drinking water, tap water	Epoxy body for added durability	-	STORP1	STCON3	-	-	STDO21
Waters	Wastewater, seawater	Double junction Ag/AgCl reference and epoxy body for added durability	STORP2	-	-	STCON7	-	STDO21
Harsh Environments	Field or plant use, rugged use	Epoxy body for added durability and polymer or gel filled for easy maintenance	-	-	-	STCON7	-	STDO21
High Ionic Strength	Acids, bases, brines, pH > 12 or pH < 2	Open junction for better contact and stable measurements	-	-	-	-	-	-
Soft Samples	Piercing fruits, cheese and meats	Spear tip for piercing samples	-	-	-	-	-	-