pH Electrode Application Guides

Abbreviation Guide

Spheric (S) Glass (G)
Conic (C) Plastic (P)
Flat (F) Metal (M)

Application	Recommended Electrodes	Tip Shape	Body Material	Single Reference	Double Reference	Cloth Junction	Ceramic Junction	Open Junction	Viscolene Electrolyte	Gel Electrolyte	KCl 3.5M Electrolyte	KCl 3.5M + AgCl Electrolyte	Refillable	SMART	Temperature Sensor	Amplifier	Pressure (Bar)
Acids, Strong	HI1043B/P	S	G		•		•				•		•				0.1
	HI10430*	S	G		•		•				•		•		•	•	0.1
Alkaline, Strong	HI2111B (half-cell) + HI5311	S	P/G		•		•				•						0.1
Aquariums	HI1332B/P	S	P		•		•				•		•				0.1
Bases, Strong	HI1043B/P	S	G		•		•				•		•				0.1
	HI10430*	S	G		•		•				•		•		•	•	0.1
Beer	HI1131B/P/D	S	G	•			•					•	•				0.1
	HI11310*	S	G		•		•				•		•		•	•	0.1
	HI11311*	S	G		•		•				•		•		•	•	0.1
	FC214D	S	M	•		•				•					•	•	3
Biotechnology (< 100 µl)	HI1083B/P	S	G	•				•	•								0.1
Boilers and Cooling Towers	HI72911D	F	M		•		PTFE			Polymer					•	•	3
Cheese	FC100B	S	P		•		•				•		•				0.1
	FC240B	C	M	•				•	•								0.1
Chemicals	HI1332B/P/D	S	P		•		•				•		•				0.1
Conductivity, Low	HI1053B/P	C	G		•		•					•	•				0.1
	HI10530*	C	G		•		•				•		•		•	•	0.1
Conductivity, High	HI1043B/P	S	G		•		•				•		•				0.1
	HI10430*	S	G		•		•				•		•		•	•	0.1
Creams	FC210B	C	G		•			•	•								0.1
	FC220B	S	G	•			•					•					0.1
	FC911B	S	P		•		•				•		•			•	0.1
Dairy Products	HI2031B	C	G	•			•					•	•				0.1
	FC200B/S	C	P	•				•	•								0.1
	FC240B	C	M	•				•	•								0.1
	FC201D, FC202D	C	P	•				•	•					•	•	•	0.1
	FC2100*	C	G		•			•	•						•	•	0.1
	FC2020*	C	P		•			•	•						•	•	0.1
Emulsions	HI1053B/P	C	G	•			•					•	•				0.1
	HI10530*	C	G		•		•				•		•		•	•	0.1
	HI1612D	C	G	•			•					•	•		•	•	0.1
	HI1413B	F	G	•				•	•								0.1
	HI1414D	F	G	•				•	•						•	•	0.1
Fats and Creams	HI1053B/P	C	G	•			•					•	•				0.1
	HI10530*	C	G		•		•				•		•		•	•	0.1
Flasks	HI1331B	S	G	•			•					•	•				0.1
Fluoride, Samples with	HI1143B	S	G		•		•				•		•				0.1
Food Industry (General Use)	FC100B	S	P		•		•				•		•				0.1
	FC911B	S	P		•		•				•		•			•	0.1
Food, Semi-solid	FC201D, FC202D	C	P	•				•	•					•	•	•	0.1
	FC200B/S/D	C	P	•				•	•								0.1

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Fruits	FC200B/S/D	C	P	•				•	•								0.1
	FC230B	C	P	•				•	•								0.1
	FC202D	C	P	•				•	•						•	•	0.1
Fruit Juices, Organic	FC220B	S	G	•			•					•	•				0.1
	FC911B	S	P		•		•				•		•			•	0.1
Frozen, Semi	FC230B	C	P	•				•	•								0.1
Ham and Sausages	FC200B/S/D	C	P	•				•	•								0.1
	FC202D	C	P	•				•	•						•	•	0.1
	FC230B	C	P	•				•	•								0.1
Horticulture and Nurseries	HI1053B/P	C	G	•			•				•		•				0.1
	HI1292D	C	G	•			•					•	•		•	•	0.1
Humidity, High	FC911B	S	P		•		•				•		•			•	0.1
Hydrocarbons	HI1043B/P	S	G		•		•				•		•				0.1
	HI10430*	S	G		•		•				•		•		•	•	0.1
Laboratory (General Use)	HI1131B/P/D	S	G		•		•					•	•				0.1
	HI1230B/D	S	P		•		•			•							2
	HI1217D	S	P	•			•			•					•	•	2
	HI1610D	S	G	•			•					•	•		•	•	0.1
	HI1332B/P/D	S	P		•		•				•		•				0.1
	HI11310*	S	G		•		•				•		•		•	•	0.1
	HI11311*	S	G		•		•				•		•		•	•	0.1
	HI12300*	S	P		•		•			•					•	•	2
	HI12301*	S	P		•		•			•					•	•	2
	HI1291D	S	P	•			•			•					•	•	2
Leather	HI1413B	F	G	•				•	•								0.1
	HI1414D	F	G	•				•	•						•	•	0.1
Meats	FC230B	C	P	•				•	•								0.1
	FC400B	C	P		•			•	•								0.1
	FC231D, FC232D	C	P	•				•	•					•	•	•	0.1
	FC201D, FC202D	C	P	•				•	•					•	•	•	0.1
	FC2320*	C	P		•			•	•						•	•	0.1
Milk and Yogurt	FC200B/S	C	P	•				•	•								0.1
	FC210B	C	G		•			•	•								0.1
	FC201D, FC202D	C	P	•				•	•					•	•	•	0.1
	FC2100*	C	G		•			•	•						•	•	0.1
	FC2020*	C	P		•			•	•						•	•	0.1
Monitoring, Continuous	HI1135B	S	G		•		•				•		•				3
	HI1611D	S	G	•			•			•					•	•	2
NMR Tubes	HI1093B	S	G	•				•	•								0.1
Paints	HI1043B/P	S	G		•		•				•		•				0.1

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Paper	HI1413B	F	G	•				•	•								0.1
	HI1414D	F	G	•				•	•						•	•	0.1
Photographic Chemicals	HI1230B/D	S	P		•		•			•							
Plating Baths	HI62911D	F	M		•		PTFE				Polymer				•	•	3
Quality Control	HI1332B/P/D	S	P		•		•				•		•				0.1
Sauces	FC220B	S	G	•			•					•	•				0.1
	FC911B	S	P		•		•				•		•			•	0.1
Seawater	HI1043B/P	S	G		•		•				•		•				0.1
	HI10430*	S	G		•		•				•		•		•	•	0.1
Semi-solid Products	HI1053B/P	C	G		•		•				•		•				0.1
	HI10530*	C	G		•		•				•		•		•	•	0.1
	HI1612D	C	G	•			•					•	•		•	•	0.1
	FC200B/S/D	C	P	•				•	•								0.1
	FC201D, FC202D	C	P	•				•	•					•	•	•	0.1
	HI2031B	C	G	•			•					•	•				0.1
Skin, Scalp	HI1413B	F	G	•				•	•								0.1
	HI1414D/50	F	G	•				•	•						•	•	0.1
Soil, Direct	HI1292D	C	G	•			•					•	•		•	•	0.1
Soil Samples	HI1053B/P	C	G		•		•				•		•				0.1
	HI10530*	C	G		•		•				•		•		•		0.1
	HI1230B/D	S	P		•		•			•							2
	HI1292D	C	G	•			•					•	•		•	•	0.1
Solvents	HI1043B/P	S	G		•		•				•		•				0.1
	HI10430*	S	G		•		•				•		•		•	•	0.1
Surface Measurements	HI1413B	F	G	•				•	•								0.1
	HI1414D	F	G	•				•	•						•	•	0.1
Swimming Pools	HI1297D	C	M	•		•				•					•	•	3
Tris Buffer	HI1043B/P	S	G		•		•				•		•				0.1
	HI10430*	S	G		•		•				•		•		•	•	0.1
	HI1144B/D	S	G	•			•				•		•				0.1
	HI1343B	S	P	•			•				•						0.1
Vials and Test Tubes	HI1330B/D	S	G	•			•				•		•				0.1
Wastewater	HI1296D	S	M	•		•				•					•	•	3
	HI1297D	C	M	•		•				•					•	•	3
Water, High Purity	HI1053B/P	C	G		•		•				•		•				0.1
Water, Municipal	HI1297D	C	M	•		•				•					•	•	3
Water, Potable	HI1053B/P	C	G		•		•				•		•				0.1
	HI10530*	C	G		•		•				•		•		•		0.1
	FC215D	C	G	•			•					•	•		•	•	0.1
Water Treatment	HI1297D	C	M	•		•				•					•	•	3
Wine and Must	HI1048B/P/D	S	G		•			•			•		•		•	•	0.1
	HI10480*	S	G		•			•			•		•		•	•	0.1

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