

# PACKTEST Series



PACKTEST is the most simplified analysis instrument for water quality check.

You can easily examine the water quality by sucking the water sample up into a tube containing reagents and comparing its color with the Standard color after the reaction time.

It is ideal for controlling the quality of water, such as groundwater, river water, industrial water, wastewater from factory, and more.

## Example of application

- Examination of water quality (water in a reservoir tank, groundwater etc.)
- Wastewater Management
- Process water management (industrial factories, sewage plants etc.)
- Analysis of environmental water (river, lake, hot spring etc.)
- Examination of liquid samples in agricultural field (nutrient check, irrigation etc.)
- Educational tool (scientific experiments in schools) and so on...

## PACKTEST

## Standard Type (Measurement for 40/50 times)

Cat.No.	Testing Item	Range	Reaction Time	Quantity (pcs./box)	Model Code
49355-54	Silver	0, 0.5, 1, 2, ≥5 mg/L	3min.	50	WAK-Ag
49355-20	Aluminum	0, 0.05, 0.1, 0.2, 0.5, 1 mg/L	1min.	40	WAK-Al
49355-55	Gold	0, 2, 5, 10, 20 mg/L	30sec.	40	WAK-Au
49355-39	Boron (High Range)	0, 5, 10, 20, 50, 100 mg/L	10min.	40	WAK-B(C)
49355-21	Boron	0, 0.5, 1, 2, 5, 10 mg/L	30min.	50	WAK-B
49355-78	BOD	0, 20, 40, 60, 100, 200, 300, ≥500 mg/L	2min.	50	WAK-BOD
49355-80	BOD (Low Range)	0, 5, 10, 15, 20, 50, 100 mg/L	4min.	50	WAK-BOD(D)
49355-40	Chloride (300)	≤200, about 250, ≥300 mg/L	10sec.	40	WAK-Cl (300)
49355-41	Chloride (200)	≤100, about 150, ≥200 mg/L	10sec.	40	WAK-Cl(200)
49355-22	Chloride (Low Range)	0, 2, 5, 10, 20, ≥50 mg/L	1min.	40	WAK-Cl(D)
49355-13	Residual Chlorine (High Range)	5, 10, 20, 30, 50, 100, 150, 200, 300, 600, ≥1000 mg/L	10sec.	50	WAK-ClO(C)
49355-14	Residual Chlorine (Free)	0.1, 0.2, 0.4, 1, 2, 5 mg/L	10sec.	50	WAK-ClO·DP
49355-23	Total Residual Chlorine	0.1, 0.2, 0.4, 1, 2, 5 mg/L	2min.	50	WAK-T·ClO
49355-42	Chlorine Dioxide	0.2, 0.4, 0.6, 1, 2, 5, 10 mg/L	10sec.	40	WAK-ClO <sub>2</sub>



Cat.No.	Testing Item	Range	Reaction Time	Quantity (pcs./box)	Model Code
49355-56	Sodium Chlorite	5, 10, 20, 50, 100, 150, 200, 300, 500, ≥1000 mg/L	10sec.	40	WAK-NaClO <sub>2</sub>
49355-08	Free Cyanide	≤0.02, 0.05, 0.1, 0.2, 0.5, 1, 2 mg/L	8min.	40	WAK-CN-2
49355-79	Calcium	0, 2, 5, 10, 20, ≥50 mg/L 0,5,12.5,25,50, ≥125 mg/L	2min.	50	WAK-Ca-2
49355-09	COD (High Range)	0, 30, 60, 120, 200, ≥250 mg/L	5min.	50	WAK-COD(H)-2
49355-10	COD	0, 5, 10, 13, 20, 50, 100 mg/L	5min.	50	WAK-COD-2
49355-38	COD (Low Range)	0, 2, 4, 6, ≥8 mg/L	5min.	50	WAK-COD(D)-2
49355-76	COD (Wide Range)	0, 10, 100, 500, 1000, 2000, ≥10000 mg/L 0, 10, 100, 300, 500, 800, ≥ 1,000 mg/L	30sec. 1min.	50	WAK-COD-WR
49355-00	Chromium (Hexavalent)	0.05, 0.1, 0.2, 0.5, 1, 2 mg/L	2min.	50	WAK-Cr <sup>6+</sup>
49355-01	Total Chromium	0.5, 1, 2, 5, 10, 20 mg/L	5.5min.	40	WAK-Cr·T
49355-43	Cationic Surfactants	0, 5, 10, 20, ≥50 mg/L	5min.	50	WAK-CS
49355-02	Copper	0.5, 1, 2, 3, 5, ≥10 mg/L	1min.	50	WAK-Cu
49355-44	Copper (DDTC)	0.5, 1, 3, 5, 10, 20 mg/L	2min.	50	WAK-CuM-2
49355-81	Fats and Oils	5, 10, 20, 30, 50, 100, 200 mg/L	5min.	30	WAK-FAT
49355-15	Fluoride (Free)	0, 0.4, 0.8, 1.5, 3, ≥8 mg/L	7min.	50	WAK-F
49355-16	Iron	0.2, 0.5, 1, 2, 5, 10 mg/L	2min.	50	WAK-Fe
49355-24	Iron (Low Range)	0.05, 0.1, 0.3, 0.5, 1, 2 mg/L	2min.	50	WAK-Fe(D)
49355-57	Iron (Divalent)	0.2, 0.5, 1, 2, 5, 10 mg/L	30sec.	50	WAK-Fe <sup>2+</sup>
49355-25	Iron (Trivalent)	2, 5, 10, 20, 50, 100 mg/L	30sec.	50	WAK-Fe <sup>3+</sup>
49355-58	Formaldehyde	0, 0.1, 0.2, 0.3, 0.5, 1, 2 mg/L	4min.	40	WAK-FOR
49355-68	Glucose	0, 0.1, 0.2, 0.5, 1, 2mg/100mL 0, 1, 2, 5, 10, 20 mg/L	10min.	40	WAK-GLU
49355-59	Hydrogen Peroxide (High Range)	3, 7, 13, 20, 35, 70, 100, 130, 200, 400, 700 mg/L	20sec.	50	WAK-H <sub>2</sub> O <sub>2</sub> (C)
49355-26	Hydrogen Peroxide	0.05, 0.1, 0.2, 0.5, 1, 2, 5 mg/L	1min.	50	WAK-H <sub>2</sub> O <sub>2</sub>
49355-46	Hydrazine	0.05, 0.1, 0.2, 0.5, 1, 2 mg/L	10min.	40	WAK-HYD
49355-69	M-Alkalinity	0, 20, 30, 40, 50, 60, 80, ≥100 CaCO <sub>3</sub> mg/L	20sec.	50	WAK-MAL
49355-47	Metal ( Cu, Zn, Mn, Ni, Cd )	0, 0.2, 0.5, 1, 2, ≥5 mg/L	1min.	50	WAK-Me
49355-70	P-Alkalinity	0, 100, 200, 300, 400, 500, 600 CaCO <sub>3</sub> mg/L	20sec.	50	WAK-PAL
49355-52	Magnesium, Magnesium Hardness	0, 1, 2, 5, 10, 20 mg/L, 0, 4.1, 8.2, 20.5, 41, 82 mg/L	1min.	50	WAK-Mg-2
49355-27	Manganese	0.5, 1, 2, 5, 10, 20 mg/L	30sec.	50	WAK-Mn
49355-48	Molybdenum	5, 10, 20, 50, 100, 200, 500 mg/L	1min.	50	WAK-Mo
49355-11	Ammonium (High Range), Ammonium-Nitrogen (High Range)	0, 0.5, 1, 2, 5, 10, ≥20 mg/L, 0, 0.5, 1, 2, 5, 10, ≥20 mg/L	10min.	50	WAK-NH <sub>4</sub> (C)-4
49355-12	Ammonium Ammonium-Nitrogen	0.2, 0.5, 1, 2, 5, 10 mg/L, 0.2, 0.5, 1, 2, 5, 10 mg/L	5min.	50	WAK-NH <sub>4</sub> -4
49355-03	Nickel	0.5, 1, 2, 5, 10 mg/L	2min.	50	WAK-Ni
49355-04	Nickel (DPM)	0.3, 0.5, 1, 2, 5, 10 mg/L	2min.	50	WAK-Ni(D)
49355-28	Nitrite (High Range), Nitrite-Nitrogen (High Range)	16, 33, 66, 160, 330, ≥660 mg/L, 5, 10, 20, 50, 100, ≥200 mg/L	5min.	50	WAK-NO <sub>2</sub> (C)
49355-17	Nitrite, Nitrite-Nitrogen	0.02, 0.05, 0.1, 0.2, 0.5, 1 mg/L, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5mg/L	2min.	50	WAK-NO <sub>2</sub>
49355-30	Nitrate (High Range), Nitrate-Nitrogen (High Range)	90, 225, 450, 900, 2250, 4500 mg/L, 20, 50, 100, 200, 500, 1000 mg/L	5min.	50	WAK-NO <sub>3</sub> (C)
49355-05	Nitrate, Nitrate-Nitrogen	1, 2, 5, 10, 20, 45 mg/L, 0.2, 0.5, 1, 2, 5, 10 mg/L	3min.	50	WAK-NO <sub>3</sub>
49355-18	Ozone	0.1, 0.2, 0.5, 1, 2, 5 mg/L	1min.	50	WAK-O <sub>3</sub>
49355-31	pH	pH 5.0–9.5 0.5 increment 10 step	20sec.	50	WAK-pH



Cat.No.	Testing Item	Range	Reaction Time	Quantity (pcs./box)	Model Code
49355-62	pH-BCG (for studying acid rain)	pH3.6–6.2 0.2 increment 14 step	20sec.	50	WAK-BCG
49355-49	pH-BTB	pH5.8–≥8.0 0.2 increment 12 step	20sec.	50	WAK-BTB
49355-53	PMD (Potassium Permanganate Consumption)	0, 3, 6, 10, 12, 15 mg/L	7min.	50	WAK-PMD-2
49355-32	Phenol	0, 0.2, 0.5, 1, 2, 5, 10 mg/L	2min.	40	WAL-PNL-2
49355-33	Phosphate (High Range), Phosphate-Phosphorus (High Range)	2, 5, 10, 20, 50, 100 mg/L, 0.66, 1.65, 3.3, 6.6, 16.5, 33 mg/L	1min.	40	WAK-PO <sub>4</sub> (C)
49355-06	Phosphate, Phosphate-Phosphorus	0.2, 0.5, 1, 2, 5, 10 mg/L, 0.1, 0.2, 0.5, 1, 2, 5 mg/L	1min.	40	WAK-PO <sub>4</sub>
49355-34	Phosphate (Low Range), Phosphate-Phosphorus (Low Range)	0.05, 0.1, 0.2, 0.5, 1, 2 mg/L, 0.02, 0.05, 0.1, 0.2, 0.5, 1 mg/L	5min.	40	WAK-PO <sub>4</sub> (D)
49355-51	Sulfide (Hydrogen Sulfide)	0.1, 0.2, 0.5, 1, 2, 5 mg/L	3min.	40	WAK-S
49355-35	Silica	5, 10, 20, 50, 100, 200 mg/L	6.5min.	40	WAK-SiO <sub>2</sub>
49355-36	Silica (Low Range)	0.5, 1, 2, 5, 10, 20 mg/L	6.5min.	40	WAK-SiO <sub>2</sub> (D)
49355-64	Sulfite (High Range)	50, 100, 200, 500, 1000, 2000 mg/L	10sec.	50	WAK-SO <sub>3</sub> (C)
49355-72	Sulfate (High Range)	50, 100, 200, 500, 1000, ≥2000 mg/L	10sec.	40	WAK-SO <sub>4</sub> (C)
49355-65	Total Hardness	0, 10, 20, 50, 100, 200 mg/L	30sec.	50	WAK-TH
49355-84	Total Hardness(Low Range) <b>New</b>	0, 0.5, 1, 2, 3, ≥5 mg/L	30sec.	50	WAK-TH (D)
49355-19	Total Nitrogen (Inorganic)	0, 5, 10, 25, 50, 100 mg/L	20min.	40	WAK-TN-i-3
49355-83	TOC(Total Organic Carbon)	0, 3, 5, 8, 10, 25, 50 mg/L	5min.	50	WAK-TOC
49355-73	Vitamin C L-Ascorbic Acid	0.1, 0.2, 0.5, 1, 2, ≥4 mg/100mL, 1, 2, 5, 10, 20, ≥40 mg/L	3min.	40	WAK-VC-2
49355-37	Zinc (Low Range)	0, 0.05, 0.1, 0.2, 0.5, 1, ≥2 mg/L	6min.	40	WAK-Zn(D)
49355-07	Zinc	0, 0.2, 0.5, 1, 2, ≥5 mg/L	1min.	50	WAK-Zn

## PACKTEST Lead Test

Selectively measuring trace amounts of lead ions

Cat.No.	Testing Item	Range	Reaction Time	Quantity (pcs./box)	Model Code
49355-66	Lead	0, 0.05, 0.1, 0.2, 0.5, 1 mg/L	10min.	20	SPK-Pb

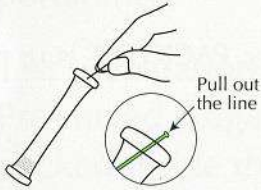


## Other products

Cat. No.	Product Name	Description	Quantity (pcs./box)	Model Code
49355-82	Reagent Set for Water Analyzer Copper (Reagent No.50)	Reagent set for measuring water quality using a spectrophotometer	30 tests	LR-50Cu
49355-75	Reagent Set for Water Analyzer Chromium (Hexavalent) (Reagent No.31)	Reagent set for measuring water quality using a spectrophotometer	50 tests	LR-Cr6+
49355-74	Pretreatment Reagent for Nitrate	Required when Nitrite co-exists in the sample while using PACKTEST Nitrate for measurement.	50 tests	NO <sub>3</sub> -RA
49355-77	PACKTEST Square Cup	1.5mL polystyrene cup for DIGITALPACKTEST	10 pcs	WAK-CC10

## How to use

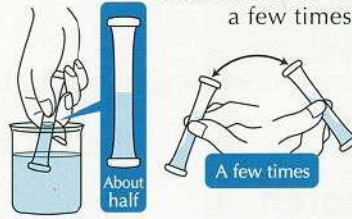
- ① Remove the colored line at the top of the tube to clear the aperture.



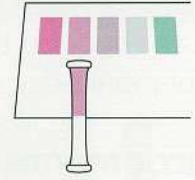
- ② Press tube's side wall to expel air, and hold the tube.



- ③ Immerse the aperture of the tube into the sample and release to fill the tube halfway. Invert the tube back and forth for a few times.



- ④ After the reaction time, compare the actual color in the tube with Standard Color to obtain the result.

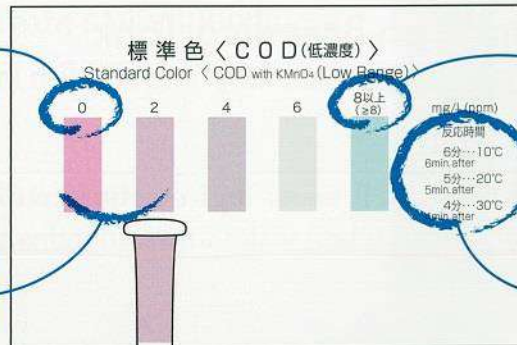


\* Please refer to instruction manual for more details.

## Important tips about color comparison for PACKTEST

When the left most value shown is 0mg/L, it still changes color as indicated on the Standard Color.

A color between the two standard colors indicates the value between them.



If the right most value shown is "≥", the color will stay fairly the same, although it exceeds the value indicated.

Please strictly follow the Reaction Time shown on the Standard Color.

Upon color comparison, please be sure to have back side of PACKTEST touching the surface of the Standard Color. If not, the color may appear lighter than the actual.

Standard Color Sheet  
(In a plastic case)

PACKTEST



Please scan 2D code to watch "How to use" video.

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