

6. Anticorrosive Specification Of Sensor Material As Following Density And Temperature Of Chemicals

Chemicals	Concentration (%)	Temp °C	304SS	316SS	PVC	PTFE
황산 Sulfuric acid H ₂ SO ₄	30	20	x	x	◎	◎
		60	x	x	◎	◎
		100				◎
	60	20	x	x	◎	◎
		60	x	x	◎	◎
		100				◎
	90	20	x	x	◎	◎
		60	x	x	○	◎
		100				○
	98	20	○	○	○	○
		60		○	x	○
		100				○
Fuming	20	○	○	x	○	
	60	x	○			
	100					
염산 Hydrochloric acid HCl	15	20	x	x	◎	◎
		60			◎	◎
		100				◎
	25	20	x	x	◎	◎
		60			◎	◎
		100				◎
	35	20	x	x	◎	◎
		60			○	◎
		100				◎
인산 Phosphoric acid H ₃ PO ₄	10	20	◎	◎	◎	◎
		60	◎	◎	◎	◎
		100				◎
	50	20	◎	◎	◎	◎
		60	◎	◎	◎	◎
		100				◎
80	20	◎	◎	◎	◎	
	60	◎	◎	○	◎	
	100				◎	
질산 Nitric acid HNO ₃	10	20	◎	◎	◎	◎
		60	◎	◎	◎	◎
		100				◎
	30	20	◎	◎	◎	◎
		60	◎	◎	○	◎
		100				◎
	50	20	◎	◎	◎	◎
		60	○	○	○	◎
		100				◎
	70	20	◎	◎	◎	◎
		60		○	△	◎
		100				◎
98	20			x	◎	
	60				○	
	100				△	
중 크롬산 Chrome acid H ₂ CrO ₄	10	20	x	x	◎	◎
		60			◎	◎
		100				◎
	20	20	x	x	○	◎
		60			x	◎
		100				◎
50	20	x	x	△	◎	
	60				◎	
	100				◎	
해수 Sea Water		20	x	x	◎	◎
		60			◎	◎
		100				◎

Chemicals	Concentration (%)	Temp °C	304SS	316SS	PVC	PTFE
플루오르화 수소산 Hydro fluorine acid HF	30	20	x	x	◎	◎
		60			△	◎
		100				◎
	40	20	x	x	○	◎
		60			x	◎
		100				◎
	50	20	x	x	○	◎
		60			x	◎
		100				◎
초산 Acetic acid CH ₃ COOH	20	20	○	◎	◎	◎
		60			△	◎
		100				◎
	50	20	○	◎	◎	◎
		60			△	◎
		100				◎
80	20	△	○	◎	◎	
	60		△	△	◎	
	100				◎	
가성 소다 Caustic Soda (Sodium Hydroxide) NaOH	15	20	◎	◎	◎	◎
		60	○	◎	◎	◎
		100	x	x		◎
	30	20	◎	◎	◎	◎
		60	○	○	◎	◎
		100	x	x		◎
50	20	◎	◎	◎	◎	
	60	○	○	◎	◎	
	100	x	x		◎	
염소산 소다 Hypochloric Soda NaClO	5	20	x	x	◎	◎
		60	x	△	○	◎
		100				◎
10	20	x	x	◎	◎	
	60			○	◎	
	100				◎	
13	20	x	△	◎	◎	
	60			○	◎	
	100				◎	
Crude petroleum 원유		20			◎	◎
		60			○	◎
		100				◎
Heavy Oil 중유		20	◎	◎	◎	◎
		60	◎	◎		◎
		100	◎	◎		◎
Petroleum 석유		20	◎	◎	◎	◎
		60	◎	◎		◎
		100	◎	◎		◎
Gasoline 휘발유		20	◎	◎		◎
		60	◎	◎		◎
		100				◎
Machine Oil 기계유		20	◎	◎	◎	◎
		60	◎	◎	◎	◎
		100				◎
Plant Oil 식물유		20	◎	◎	◎	◎
		60	◎	◎		◎
		100				◎
Methyl alcohol CH ₃ OH 메틸알콜		20	○	○	◎	◎
		60				◎
		100			○	◎
Ethyl alcohol C ₂ H ₅ OH 에틸알콜 (주정)		20	○	○	◎	◎
		60	○	○	○	◎
		100				◎