

SHD Series Magnetic Flow meters can measure conductive fluids, such as water, sewage ,acid, alkali and so on.By selection proper type electrodes and liner material

of magnetic flow meters , we can measure different kinds acid and alkali fluids. Below we list the normally used acid and alkali for customers reference, here you can choose proper type electrodes and lining materials. Note: Silver Automation Instruments not provide ceramics liners .

Symbol Description:A-Good;B-Can be used but short serving life; N-Can not used;X-Not recommend;Blank-No data;R-Room Temperature.S-Boiling point;S-Saturation;(M)-Decided by liner max temperature.

Fluids			Magnetic Flow meter Electrodes Material					Magnetic Flow meter Liner Material				
Fluids	Concentration %	Temperature °C	316L electrodes	Hastelloy C Electrodes	Titanium	Tantalum	Pt/Iridium Alloy	PTFE	PFA	Polyurethane Rubber	Neoprene	Ceramics
Acetaldehyde	100	R	B	A	A	A	A	A	A	N	N	A
Acetic acid	5~10	R~S	A	A	A	A	A	A	A	N	A	A
	Above 50	R~S	N	A	A	A	A	A	A	N	N	A
	S	R~S	N	A	A	X	A	A	A		N	A
Acetic anhydride		R	A	A	A	X	A	A	A	N	B	A
Acetone	100	R	B	A	A	X	A	A	A	N	B	A
Alum	10~100	R	N	N	A	A	A	A			B	A
Alumina			A	X		A	A	A			N	
Aluminum chloride	10	<100	N	N	A	B	A	A			A(M)	A
	25~100	<100	N	N	N	B	A	A			A(M)	A
AlCl ₃ · 6H ₂ O Aluminum chlorohydrate			N	N		A	A	A			A	
Aluminum fluoride	100		N	N		N	A	A	A			A
Aluminum chlorate	100		N	N		A	A		A			A
Aluminum hydroxide	100		B	N		A	A	A	A			A
Aluminum nitrate	100		N	N	B	N	A	A	A	A		A
Aluminum sulfate	10	R~S	A	X	A	A	A	A	A	B	A	A
	>10~100	R~50		X	A	X	A	A	A		A	A

	57	120		X	A	X	A	A	A		N	A
Ammonia	10	R	A	A	A	X	A	A				A
	10~100	<S	B	A	A	N	A	A	A		A(M)	A
Ammonium borate	100		N	N		A	A					A
Ammonium bicarbonate			N	N		A		A				
Ammonium bifluoride			N	N		A	A	A				
Ammonium bisulfate	Below 50		N	N		A	A	A	A		A	A
Ammonium carbonate	Above Sat	R~S	N	N		A	A	A	A		A(M)	A
Ammonium chloride	10~20	R~S	N	B	B	A	A	A	A		A(M)	A
	Above 50	R~S	N	B	B	X	A	A	A		N	A
Ammonium fluoride	20~100	80	N	B	B	N	A	A	A		A	A
Ammonium hydrogen	50		N	B	N	N	A	A	A	A	A	A
Ammonium hydroxide	10~30	20~60	B	B	A	B	A	A	A	A	A	A
Fluids			Magnetic Flow meter Electrodes Material					Magnetic Flow meter Liner Material				
Fluids	Concentration %	Temperature °C	316L electrodes	Hastelloy C Electrodes	Titanium	Tantalum	Pt/Iridium Alloy	PTFE	PFA	Polyurethane Rubber	Neoprene	Ceramics
Ammonium nitrate	10~50	R	N	B	B	X	A	A		N	A	A
	10~50	<S	N	B	B	X	A	A		N	A(M)	A
Ammonium persulfate	100		N	N	N	A	A	A		N	B	A
Ammonium phosphate	100		N	N		A	A	A	A			A
Ammonium sulfate	20~sat		N	N	B	A	A	A	A	A		A
Ammonium sulfide	100					B	B		A			A
Aqua regia	100		N	N	B	A	N		N			A
Aniline		R	A	A	A	X	A	A			N	A

		S	B	A	A	X	A	A			N	A
Antimony pentachloride	100		N	N		A	A	A	A			A
Antimony trichloride	100		N	N		A	A	A	A			A
Arsenic acid	100		N	N		A	A	A	A		A	A
Arsenious acid	100		N	N		A	A	A	A		A	A
Barium acetate	100		N	N		A	A	A				
Barium carbonate	100		N	N		A	A	A	A			A
Barium chloride	20	R	N	B	B	A	A	A	A	A	A	A
	20~30	<100	N	B	B	A	A	A	A		A(M)	A
Barium hydroxide	Sat	R	A	N	N	A	A	A	A	A	A	A
		S	A	N	N	N	A	A	A		A(M)	A
Barium sulfate	100		N	N	B	A	A	A		A	B	A
Barium sulfide	100		N	N		A	A	N		N		A
Bauxite slurry			A	A		A	A	B	A	A	B	A
Beer			A	A		A	A	A				
Black liquor			B			A	A	A		N	N	
Benzene		R	A	A	A	X	A	A				A
Benzoic acid	All	R	A	A	A	X	A	A				A
Benzene sulfonic acid	5	70	A	A		X	A	A				A
	100		N	N		X	A	A	A			A
Borax			N	N		A	A	A	A	B		
Fluids			Magnetic Flow meter Electrodes Material					Magnetic Flow meter Liner Material				
Fluids	Concentration %	Temperature °C	316L electrodes	Hastelloy C Electrodes	Titanium	Tantalum	Pt/Iridium Alloy	PTFE	PFA	Polyurethane Rubber	Neoprene	Ceramics
Boracic acid	10~50	S	A	A	A	A	A	A			A(M)	A
Brine		R~S	B	A	A	X	A	A		N	A(M)	A
Bromine		R~S	N	A	N	A	A	A	A	N	N	A
Butyric acid	100	R~S	A	A	A	X		A			A	A
Butylacetate		R	A	A	A	X	A	A			N	A

Butyl-alcohol		R	A	A	A	X	A	A			A	A
		S	A	A	A	X	A	A			N	A
Calcium bisufate	100	R	N	B	A	A	A	A	A		B	A
Calcium bisulfite		R	A	A	A	A	A	A			B	A
Calcium carbonate	100	R~S	B	B		A	A	A			A(M)	
Calcium chlorate	30~40		N	N	B	B	A	A	A		A(M)	A
Calcium chloride	100		N	N		A	A	A		B	A	A
Calcium hydroxide	25		N	B		A	A	A		A	A	
Calcium hypochlorite	20	40	B	A	A	A	A	A			B	A
	100		N	N	A	A	A	A	A			A
Calcium nitrate			N	N	A		A	A	A		A	A
Calcium sulfate	1~10	R~S	A	A	A	A	N	A			N	A
Carbon disufide		R~S	A	A	A	X	A	A			N	A
Carbon tetrachlorine		R	B	A	A	X		A	A		N	A
Cheese			A	A		A	A	A			N	
Chlorine		R~70	B	A	N	X	A	A	A		N	
		100	N	A	A	X	A	A			N	
Chlorine dioxide			N	N		A	N	A		N	N	
Chlorate		50	A					A				A
Chlorine benzene		20~S	A	A	A			A			N	A
Chloracetic acid	25~100	R~S	B	A	A	A		A	A		N	A
Chlorosulfonic acid		R~S	N	A	N	X	A	A	A		N	A
Chromic acid	10	R	A	A	A	A	A	A			N	A
	10	S	N	A	A	A	A	A			N	A
	50	R~S	N	A	A	A	A	A	A		N	A
	100		N	N		A	A	A				A

Chromium sulfate	100		N	B		A	A	A	A		N	A
Fluids			Magnetic Flow meter Electrodes Material					Magnetic Flow meter Liner Material				
Fluids	Concentration %	Temperature °C	316L electrodes	Hastelloy C Electrodes	Titanium	Tantalum	Pt/Iridium Alloy	PTFE	PFA	Polyurethane Rubber	Neoprene	Ceramics
Citric acid	5~25	R~S	A	A	A	X	A	A			A(M)	A
	50	R	A	A	A	X	A	A			A	A
	50	S	A	A	B	X	A	A			A(M)	A
Slurry			N	B		A	A	A		B	A	
Copper chloride	20~50	R	N	A	B	A	N	A	A	A	A	A
	sat	S	N	N	B	N	N	A	A		A(M)	A
Coal+water slurry			A	A		A	A	B		A	A	
Copper cyanide	100		B	B		A	A	A	A		A	A
Copper fluoride	100		N	N		N	A		A			
Copper nitrate	50		N	N	B	A	A	A	A			A
Copper sulfate	5~50	R~S	B	B	B	A	A	A		A(M)	A(M)	A
	50~sat	R~S	B	B	B	X	A	A		A(M)	A(M)	A
Copper oxychloride	100		N	N	N	N	A	A	A			A
Copper chloride	100		B	B		A	N		A			A
Cyanide	10	R	A		N	A		A			A	A
Dairy products			A	A		A	A	B		N	N	
Dichloroethylene	100	50~S	B	A	A	X		A			N	A
Dichloro ethane		R~S	B	A	A	X		A			N	A
Dioxane				A	A	X		A			N	A
Dichloromethane		R~S										
Diphenyl			B	A	A	X		A			N	A
Dynes			A	A		A	A	A		N	N	
Ether		R	A	A	A	X	A	A	A		N	A
Ethyl acetate		R	A	A	A	X	A	A	A		N	A
Ethyl alcohol		R	A	A	A	X	A	A	A		A	A

Ethyl chloride		R	B	A	A	X		A			N	A
Fatty acid	100	R	A	A	A	X	A	A			B	A
	100	S	B	A	A	X	A	A			N	A
	100	135	A	A	A	X	A	A			B(M)	A
	100	315	A	B	A	X	A	A				A
Fluids			Magnetic Flow meter Electrodes Material					Magnetic Flow meter Liner Material				
Fluids	Concentration %	Temperature °C	316L electrodes	Hastelloy C Electrodes	Titanium	Tantalum	Pt/Iridium Alloy	PTFE	PFA	Polyurethane Rubber	Neoprene	Ceramics
Ferric chloride	10~sat	R~S	N	A	A	A	N	A	A		B(M)	A
Ferric nitrate	100		N	B		A	A	A	A			A
Ferric(II),perchloride	30~50	R~50	A	A	A	A		A			A(M)	A
	10~sat	100~S	A	A	A	A		A			N	A
Ferric(III), perchloride	5~15	25	N	A	A	A		A	A		A	A
	45	25	N	B	A	A		A			A	A
	10	65	N	B	A	A		A			A(M)	A
	50	50~S	N	N	A	A		A			A(M)	A
Ferrous(II),Sulfate	10	R	A	A	A	A	A	A			A	A
	All	S	A	A	A	X	A	A			(AM)	A
Ferrous(III),Sulfate		R	A	A	A	X	A	A			A	A
	T _o 30	T _o 65	A	A	A	X	A	A			A(M)	A
Hydrochloric acid	0.5~5	R	N	X	A	A	A	A	A		B	A
	10~20	R	N	B	A	A	X	A	A		B	A
	37	R	B	N	N	A	X	A	A		B	A
	10	50	N	B	N	A	A	A	A		B	A
	5	60	N	N	A	A	A	A	A		B	A
	0.5~5	S	N	N	A	X	A	A	A		N	A
	10~37	S	N	N	N	X	X	A	A		N	A
Ferric sulfide	100		N	B		A	A	A	A		A	A
Ferrous nitrate		R	N	N		A	A	A			A	A
Ferric sulfate			N	B		A	A	A			B	
Fluosilicic acid	10~40	R~30	N	N	N	N	A	A	B			A
Fluorboric acid	100		N	N	N	N	A		B			

Formaldehyde		R~S	N	B	A	A	A	A	A	N	B(M)	A
Formic acid	10~50	R	N	A	A	A	A	A	A	N	B	A
	10~50	65	N	B	A	A	A	A	A	N	B(M)	A
	60	65	N	B	B	A	A	A	A	N	B(M)	A
	50~100	S	N	N	N	A	A	A	A	N	N	A
Glucose syrup			A	A		A	A	A	A	A	A	A
Glycerin	100	R~S	A	A	A	A	A	A	A	A(M)	A(M)	A
Fluids			Magnetic Flow meter Electrodes Material					Magnetic Flow meter Liner Material				
Fluids	Concentration %	Temperature °C	316L electrodes	Hastelloy C Electrodes	Titanium	Tantalum	Pt/Iridium Alloy	PTFE	PFA	Polyurethane Rubber	Neoprene	Ceramics
Green liquid			A	A		A	A	A	A		N	A
Hydrocyanic acid	100	R	B	B	A	A	A	A	A	N	B	A
Hydrogen bromide		R	A	A	A	X	A	A	A		B	A
Hydrogen sulfide		R	A	A	A	X	A	A	A		B	A
		100	A	A	A	X	A	A	A		N	A
Hydrobromic acid	~50	S	N	N		A	N	A	A		B	A
Hydrofluoric acid	1~50	R~50	N	N	N	N	A	A	A		N	A
	98~100		N	N	N	N	A	A	A		N	B
Hydrofluosilicic acid	35		N	B		N	A	A				
Hydrogen peroxide	5~50		B	B		A	A	A		N		
Hydroxy-acetic acid	35		B	B		A	A	A				B
	50		B	B		A	A	A				A
Hypochlorous acid	10~20		N	B		A	N	A	A			A
Hydrogenated fluosilicic acid	35		N	B		N	A		A			A
			N	B		N	A		B(35°C)			A
Lactic acid	1.5~10	R	A	A	A	X		A			B	A
	1.5~10	S	N	A	A	X		A			B(M)	A
	Sat	S	N	N	A	A		A			B(M)	A

Lime slurry			N	B		A	A	A			A	A
Lime stone slurry			N	B		A	A	A		A	A	
Lithium chloride	100		N	B	A	A	A	A				
Lead acetate		R	N	N		A	N	A	A	A		A
Magnesium Carbonate	100		N	B	A	A	A	A	A			A
Magnesium bisulfite	100		B	B		A	N	A				A
Magnesium chloride	10~30	R	N	B	B	A	A	A	A		A	A
	20~42	S	N	B		X	A	A			A	A
Magnesium hydroxide	100		N	N		N	A	A	A			A
Magnesium nitrate	100		N	B	B	A	A	A	A			A
Maleic acid	10~50	R	A	A	A	X		A			A	A
		S	A	A	A	X		A			B(M)	A
Magnesium sulfate	10~100	R~S	B	N	A	A	A	A			A	A
Fluids			Magnetic Flow meter Electrodes Material					Magnetic Flow meter Liner Material				
Fluids	Concentration %	Temperature °C	316L electrodes	Hastelloy C Electrodes	Titanium	Tantalum	Pt/Iridium Alloy	PTFE	PFA	Polyurethane Rubber	Neoprene	Ceramics
Manganous chloride	5~50	~100	B	A	A	X		A			A(M)	A
Manganous sulfate	Sat	R	B	B	B	X	A	A			A	A
Mercuric chloride			N	N		A	A	A				
Mercury		20~50	B	A	A	X	A	A			A	A
		S	B	B	B	X	A					A
Methanol, Methyl Alcohol	100	R	A	A	A	X	A	A	A		A	A
	100	S	B	A	B	X	A	A	A		N	A
Molasses			A	A		A	A		A	N	N	
Mud drilling			A	A		A	A		N	A	N	
Monochloroacetic	50~100	R	B	A	A	X	A	A			N	A

acid	70~100	S	N	A	A	X		A			N	A
Naphthalene		R	A	A	A	X		A	A		N	A
Neuphor			A	A		A	A	A			N	
Nickel chloride	10~20	R~60	N	B	A	A	A	A	A	A(M)	A(M)	A
	30~80	95~S	N	N	A	A	A	A	A	A(M)	A(M)	A
Nickel nitrate		R	N	N		A	A	A	A		A	A
Nickel sulfate		80	N	N		A	A	A		A(M)	A(M)	A
Nitric acid	7~65	R	X	X	X	A	A	A	A		B	
	7~65	S	X	N	X	A	A	A	A		N	
	100	R	N		X	A	A	A	A		N	
	100	50~S			X	A	A	A	A		N	
Magnesium hydroxide	100		N	N		N	A	A	A			A
Nitro benzene				A	A	X	A	A	A		N	A
Oxalic acid	5~10	R	A	A	A	X	A	A			A	A
	25~50	R		A	A	X	A	A			B	A
	Sat	R		N	B	X	A	A		N	N	A
	5~Sat	S	N	N	N	X	A	A		N	N	A
Ozone				B	A	X	A	A	A		B	A
Paper stock		R~S	B	A	A	A	A	A			N	A
Perchloric acid	50~70		N	N	B	A	A	A	A			A
Perchloroethylene		R~S	B	A	A	X	A	A			N	A
Fluids			Magnetic Flow meter Electrodes Material					Magnetic Flow meter Liner Material				
Fluids	Concentration %	Temperature °C	316L electrodes	Hastelloy C Electrodes	Titanium	Tantalum	Pt/Iridium Alloy	PTFE	PFA	Polyurethane Rubber	Neoprene	Ceramics
Phenol	Pure	R~S	A	A	A	X	A	A			N	A
Phosphoric acid	1~30	R	X	X	X	A	A	A	A		A	A
	45~Sat	R	B	X	B	A	A	A	A		A	A
	80~Sat	140~150	N	N	N	A	A	A	A		A(M)	A
Potassium aluminum	100		B	N	A	A	A	A	A			A

Potassium carbonate	100		B	B		A	A	A	A			
Potassium chloride	10~Sat	R~S	B	N	A	A	A	A	A	A(M)	A(M)	A
Potassium ferricyanite	100		N	N		B	N	A	A			A
Potassium ferrocyanite	100		N	N		B	N	A	A			A
Potassium cyanide	10	R	A		N	X	A	A			A	A
Potassium dicarbonate	100		B	B		A	A		A			A
Potassium dichromate	100		B	N		A	A	A	A			A
Potassium hydroxide	10~20	R	A	X		N	A	A	A		A	A
	20~50	R	B	X	N	N	A	A	A		A	B
	10~50	S	B	X		N	A	A	A		A	B
Potassium hypochlorite		R~150	N	A	A	X		A			N	A
Potassium nitrate	20~50	R~S	A	A	A	X	A	A			A(M)	A
	80~Sat		N	A	A	X	A	A	A		A(M)	A
Potassium perchlorate	25~75	25		A	A	X		A			A	A
Potassium permanganate	All	R~S	N	N	B	B	A	A	A		B(M)	A
Potassium persulfate			N	N	A	A	A	A	A			A
Potassium sulfate	10~20	R~50	A	A	A	A	A	A			A(M)	A
	100		B	N	B	A	A	A	A			A
Pyridine C ₅ H ₅ N	50~100	R~S	A	A	A	A		A			N	A
Sewage(Raw)				A	A	A	A	A		A	A	
Sea water		R	B	A	A	A	A	A			N	A
Silver nitrate	T _o 50		N	B	N	B	A	A		A	A	A
Sludge			A	A	A	A	A	A		N	B	
Sodium acetate	T _o 100		N	N	A	A	A	A				A

Fluids			Magnetic Flow meter Electrodes Material					Magnetic Flow meter Liner Material				
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Fluids	Concentration %	Temperature °C	316L electrodes	Hastelloy C Electrodes	Titanium	Tantalum	Pt/Iridium Alloy	PTFE	PFA	Polyurethane Rubber	Neoprene	Ceramics
Sodium bicarbonate	10~20	R~S	A	A	A	A	A	A			A(M)	A
	-100	R~S	N	N	B	A	A	A	A		A(M)	A
Sodium borate			N	N		A	A	A	A			A
Sodium bromide			N	N		A	A	A	A			A
Sodium bisulfate	10~Sat	R~S	N	N		A	A	A	A			A
Sodium bisulfide			B	N		A	A	A				
Sodium bisulfite	50	R~S	N	B		A	A	A			A	A
Sodium carbonate	10~Sat	R~S	B	B	A	X	A	A	A		A(M)	A
Sodium chlorate	5	R		A	A	A	A	A		A	A	A
	5	S		A	A	X	A	A			A(M)	A
Sodium chloride	100%	R~S	B	A	A	X	A	A			A(M)	A
Sodium chlorite	5~10	R	A	A	A	A	N	A			N	A
	5	S	N	A	A	X	N	A			N	A
Sodium chromate	T _o 40		N	N	A	A	N	A	A			
Sodium cyanide	T _o 100		N	N	A	A	N	A	A			A
Sodium dichromate	100		N		A	A	N	A	A			A
Sodium ferricyanide			N			B	N	A	A			A
Sodium ferrocyanide			N			B	N	A				
Sodium fluoride			N	N		N	A	A				
Sodium hydrosulfide			B	B		A	A	A				
Sodium hydroxide	10~20	R	A	N	A	N	A	A	A		A	A
	34~50	R	B	N	A	N	A	A	A		A	
	10~20	~150	N	N	A	N	A	A	A		A(M)	
	30~50	70~150	N	N	B	N	A	A	A		A(M)	

	50	180	N	N	B	N	A	A	A		A(M)	
	60~100	~150	N	N	B	N	A	A	A		A(M)	
Sodium hydrogensulfate	100		N	N	A	A	A	A	A			A
Sodium bisulfide			B	N		A	A	A				
Sodium hydrogensulfite	100		B	N		A	A	A	A			
Fluids			Magnetic Flow meter Electrodes Material					Magnetic Flow meter Liner Material				
Fluids	Concentration %	Temperature °C	316L electrodes	Hastelloy C Electrodes	Titanium	Tantalum	Pt/Iridium Alloy	PTFE	PFA	Polyurethane Rubber	Neoprene	Ceramics
Sodium hypochloride	10*	R		A	A	A	A	A			B	A
g C/L	10*	50		A	A	X	A	A			N	A
	20*	R		A	A	X	A	A			B	A
	20*	40		B	A	X	A	A			N	A
Sodium nitrate		R	N	N	A	A	A	A			A	A
		~100	N	N	A	A	A	A			N	A
Sodium nitrite		40~100	N	N	A	A	A	A			A(M)	A
Sodium Peroxide	10	R~S	A	A	N		A	A			A(M)	A
Sodium silicate	100		N	N	A	A	A	A	A			A
Sodium sulfate	~Sat	R	A	A	A	A	A	A	A		B	A
	~Sat	S	N	N	N	A	A	A	A		B(M)	A
Sodium sulfide	~Sat	R	A	A	A	A	A	A	A		B	A
	25~50	S	N	N	N	A	A	A	A		B(M)	A
Sodium sulfite	25~100	R~S	N	N		A	A	A	A		B(M)	A
Sodium tetraborate			N	B		A	A	A	A			A
Sodium thiosulfate	25	R	A	A		A	N	A			B	A
	25~100	S	N	A		N	N	A			B(M)	A
Sulfuric acid	2~5	R	N	X	X	A	A	A	A		A	A
	10	R	N	X	X	A	A	A	A		N	A
	25~60	R	N	X	B	A	A	A	A		N	A

	70~85	R	N	X	N	A	A	A	A		N	A
	90~96	R	X	X	N	A	A	A	A		N	A
	2~5	150	N	N	X	N	A	A	A		A(M)	A
	5~60	180	N	N	N	N	A	A	A		N	A
	77~96	150	N	N	N	N	A	A	A		N	A
Sulfur monochloride		R~S	B	A	N	X		A			N	A
Sulfurous acid	10~Sat	R	N	N	N	A	A	A	A		N	A
Tannic acid	10~50	R~S	A	A	A	X	A	A	A		B(M)	A
Tartaric acid	~100	R	A	A	A	X	A	A	A		A	A
	~100	S	N	B	A	X	A	A	A		A(X)	A
Fluids			Magnetic Flow meter Electrodes Material					Magnetic Flow meter Liner Material				
Fluids	Concentration %	Temperature °C	316L electrodes	Hastelloy C Electrodes	Titanium	Tantalum	Pt/Iridium Alloy	PTFE	PFA	Polyurethane Rubber	Neoprene	Ceramics
Tin chloride	~100	R	B	A	A	X		A	A		A	A
	~100	150	N	A	A	X		A	A		N	A
Tin dichloride	100		N	N		X	A	A	A		N	A
Tintanium dioxide			A	A		A	A	A		N	N	
Trichloroethylene		R	B	A	A	A		A			N	
Trisodium phosphate			B	N	A	A	A	A				A
Urea	50		A	A			A	A		N	N	
Uric acid		R	A	A		X	A	A			A	A
White liquid			N	N		A	A	A			B	
Zinc chloride	10~60	R	B	A	A	A		A	A		A	A
	10~20	S	B	A	A	A	A	A	A		A(M)	A
	50~60	S	B	B	B	A		A	A		A(M)	A
	100	S	N	B	N			A	A		A(M)	A
Zinc sulfate			B	B		A	A	A		N	A	

Symbol Description:A-Good;B-Can be used by short serving life; N-Can not used;X-Not recommend;Blank-No data;R-Room Temperature.S-Boiling point;S-Saturation;(M)-Decided by liner max temperature.

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