SiH_4

Silane

Grade	ULSI 6N*	UL	LSI Plus 6N*			
Purity, %	99.9999	99.9999				
Oxygen + Argon	≤0.06 ppmv	≤0.06 ppmv	Metals			
Nitrogen	≤0.5 ppmv	≤0.5 ppmv	С	≤0.1 ppma		
Carbon Dioxide	≤0.05 ppmv	≤0.05 ppmv	Fe	≤0.4 ppba		
Carbon Monoxide	≤0.08 ppmv	≤0.08 ppmv	Cr	≤0.01 ppba		
Hydrogen	≤20.0 ppmv	≤20.0 ppmv	Ni	≤0.2 ppba		
Water	≤0.5 ppmv	≤0.5 ppmv	Cu	≤0.02 ppba		
Helium	≤1.0 ppmv	≤1.0 ppmv	Zn	≤0.03 ppba		
Methane	≤0.04 ppmv	≤0.04 ppmv	Р	≤20 ppta		
THC (Sum of $C_2 - C_4$)	≤0.1 ppmv	≤0.1 ppmv	В	≤20 ppta		
Total Chlorosilanes	≤0.1 ppmv	≤0.1 ppmv	Al	≤5 ppta		
Disilane	≤0.5 ppmv	≤0.5 ppmv	As	≤5 ppta		
Disiloxane	≤0.05 ppmv	≤0.05 ppmv	Ga	≤5 ppta		
Resistivity, N-type (ohm-cm)	>10,000	>10,000	Sb	≤5 ppta		
			In	≤5 ppta		
	Total Oxygenated ≤0.2		≤0.2 ppma			

* Excluding Hydrogen

• A lot analysis is provided for each order. - Individual analysis is also available upon request.

• Pneumatic valves, JIS connections available upon request.

ĸ	Internal Volume	Liters	43.8	43.8	43.8	29.5
INDER	Cylinder Sizes >>	QB/QF	QB/QF	QF	QH	
СУШ	Content	kg	12	10	5	5
		lbs	26.4	22	11	11

	DOT Shipping Name	Silane			UN Number		UN 2203		Shipped as		
SHIP	DOT Classification	2.1 (Flammable Gas)			ECCN ;	ECCN #		EAR99		Compressed	
	DOT Label	FLAMMABLE GAS			Harmonize	ed # 2850.00.00		0000	Gas		
	Cylinder Pressure	275 -1,250 psig		Critical Te	mperature		-3.4°C		25.8°F		
TECHNICAL DATA	@NTP	20.4 – 85.4 atm		Critical F	49	49.38 atm		702.5 psia			
	Specific Volume	0.755 m³/kg									
	@NTP	12.1 ft³/lb			Size, mm	0.254	0.3556	0.508	0.762	1.016	
	CAS No	7803-62-5		RFO Data - @ - 1,250 psig -	Size, inches	0.010	0.014	0.020	0.030	0.040	
	CGA/DISS/JIS	350/632/W22-14L			Flow, sccm	47585	90844	187455	418169	720981	
	Molecular Weight	32.12			Flow, scf/h	101	192	397	886	1528	
	TLV	0.5 ppm	NTP = 21°C or 70°F and 101.3 kPa or 1 atm								

ent Cm Inches Cylinder Valve

Cylinder	Treatment	cm	Inches	Cylinder	Valve
QB	ULTRA-LINE II®	23x130/134/143	9x51/52.5/56	CS	SS
QF	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	SS
QH	ULTRA-LINE ®	20x122/126/135	8x48/49.5/53	Aluminum	SS

*Height is reported as the distance from the bottom of the cylinder to the cylinder neck/ center of the valve outlet/ top

of the handwheel

CS: Carbon Steel SS: Stainless Steel Δ WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

http://www.mathesongas.com

