TECHNOLOGY INTERNATIONAL SDN BHD (534019-T)
No. 10, Jalan Anggerik Vanilla, Y31/Y Seksyen 31, 40460 Shah Alam, Selangor, Malaysia.
Tel: +603-5124 8319 Fax: +603-5124 0312
Email: info@iaqtechnology.com.my website: www.iaqtechnology.com.my

Recommended Cleanliness Levels for Various Industries

Positive Presure Cleanroom
Negative Presure Cleanroom

	Industries		Process	Cleanliness Classes by ISO 14644-1 (by obsolete Federal Standard 209)								
				1	2	3 (1)	4 (10)	5 (100)	6 (1,000)	7 (10,000)	8 (100,000)	9
Industrial Cleanroom (ICR)	Semiconductor	wafer	VLSI wafer fabrication	●	●	●	●	●				
			silicon crystalization					●	●	●		
			polishing						●	●		
			washing				●	●	●	●		
			inspection				●	●	●			
		process	resist coating			●	●	●				
			oxidization				●	●	●	●		
			photo-lithography		●	●	●	●				
			etching washing				●	●	●	●		
			diffusion				●	●	●	●		
			evaporation				●	●	●	●		
		other	semiconductor mfg. equip't				●		●			
			clean pipes, valves					●		●		
			chemicals for VLSI mfg.					●		●		
			bonding						●		●	
			molding						●		●	
			testing					●			●	
			hybrid IC						●	●		
			quartz tube washing				●			●		
	Electronics		common liquid crystal (TN STN)						●	●		
			transistors, diode					●		●		
			magnetic head						●	●		
			disk				●		●			
			computer, disk assembly					●		●		
			LCD, PDP			●			●			
			DVD, CCD			●			●			
			magnetic tape, disk				●		●			
			CRT					●		●		
			high reliable tube					●	●			
	Precision machinery		precise electronics parts						●	●		
			gyrocompass					●		●		
			miniature bearing					●		●		
			parts for satellite					●			●	
			watches, measurement devices						●		●	
	Optical & precision printing		printed circuit materials						●	●		
			optical fiber						●			
			lens						●	●		
			PC board							●	●	
			film					●	●			
			precision print						●	●		
	Other		garment cleaning					●		●		
			wiping cloth					●		●		
Biological & Biohazard Cleanrooms (BCR & BHR)	Medical		special operation					●	●			
			normal operation						●		●	
			special treatment					●	●			
			ICU, CCU recovery room						●	●		
			neonatal room						●		●	
			clinic inspection							●	●	
			medicine room					●	●	●	●	●
	Pharmaceutical		critical area					●	●			
			controlled area						●		●	
			pathogen free animal					●		●		
			SPF animal							●	●	
			antibiotic						●	●		
			normal medicines					●				●
			preparation process							●		●
	Food		brew, fermentation							●	●	
			dairy products						●		●	
			food processing					●		●		
			paste						●		●	
	Agriculture & Farming		mushroom						●			
			artificial culture					●		●		
			raising							●	●	
	Biohazard		experimenting pathogen					●	●			
			genetic engineering					●		●		
			tumor virus					●		●		