Purity Classes

			Class S	Purity Class 1	Purity Class 2	Purity Class 3	Purity Class 4	Purity Class 5
Note			"free of oil and grease"	cleanroom suitable	low particle generation	low out-gassing and low particle generation	Semiconductor Applications	the top class
Accumulated molecular contamination*		**g/cm²**	< 1E-5	< 2E-8	< 7E-9	< 5E-9	< 5E-9	< 3E-9
Outgassing (after 10h) for simple geometries	Stainless steel, Titanium, Nickel	**H_2O [mbar·l/(s·cm²)]**	n/s	n/s	< 2E-9	< 4E-10	< 4E-10	< 2E-10
		C_xH_y (45…100) [mbar·l/(s·cm²)]	n/s	n/s	< 5E-12	< 4E-12	< 4E-12	< 2E-12
		C_xH_y (101…200) [mbar·l/(s·cm²)]	n/s	n/s	< 6E-13	< 3E-13	< 3E-13	< 1.5E-13
	Aluminum, Copper	**H_2O [mbar·l/(s·cm²)]**	n/s	n/s	< 2E-9	< 1E-9	< 1E-9	< 5E-10
		C_xH_y (45…100) [mbar·l/(s·cm²)]	n/s	n/s	< 7E-12	< 6E-12	< 6E-12	< 3E-12
		C_xH_y (101…200) [mbar·l/(s·cm²)]	n/s	n/s	< 6E-13	< 4.6E-13	< 4.6E-13	< 2.3E-13
RGA certificate			no	no	optional	optional	yes	yes
Heavy metals		**[at % at surface]**	n/s	n/s	n/s	n/s	< 0.1	< 0.1
Particles**		**[Surface cleanliness class]**	SCC 100	SCC 10	SCC 1	SCC 1	SCC 1	SCC 1
Cleanroom suitable packed			no	twofold	twofold	twofold	twofold	threefold

* hydrocarbons
** Purity Class 1 – 4: SCC 1 or SCC 0.1 according to the customers request

The T&C of cleaning apply

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