CK SUPPLY

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PurityPlus Specialty Gases

Updated 12/31/24

PRODUCT SPECS FOR PURE GASES

	GRADE	PURITY	PART #	VALVE	CONTAMINATE LEVELS (UNLESS OTHERWISE NOTED AS %) O2	THC*	H2O	CO	CO2	N2
ACETYLENE										
ATOMIC ABSORPTION✧	2.6	99.6%	ACE-26-300	510	SEE NOTE @ BOTTOM✧		-	-	-	-
INDUSTRIAL		98.0%	AC300	510	-	-	-	-	-	-
AIR										
ULTRA ZERO	0.1	-	AIR-UZ-300	590	19.5% - 23.5%	<0.1 ppm	<3 ppm	<1 ppm	<1 ppm	-
ZERO	1.0	-	AIR-ZE-300	590	19.5% - 23.5%	<1 ppm	-	-	-	-
EXTRA DRY	-	-	AIR-ED-300	590	19.5% - 23.5%	-	<8 ppm	-	-	-
T.O.C.	-	-	AIR-TOC-300	590	19.5% - 23.5%	<0.1 ppm	-	<0.5 ppm	<0.5 ppm	-
USP~	-	-	AIR-USP-300	346	19.5% - 23.5%	-	-	≤10 ppm	≤500 ppm	-
BREATHING AIR	D&L	-	CA300	346	19.5% - 23.5%	<5 ppm	<24 ppm	<10 ppm	<500 ppm	-
~ USP - AIR has ≤ 5 ppm SO2, ≤ 2.5 ppm NOx, & No Odor										
ARGON										
RESEARCH	6.0	99.9999%	ARG-60-300	580	<0.2 ppm	<0.5 ppm	<0.2 ppm	<0.1 ppm	<0.1 ppm	<0.1 ppm
CHROMATOGRAPH	5.5	99.9995%	!	580	<1 ppm	<0.1 ppm	<1 ppm	-	-	<3 ppm
UHP	5.0	99.999%	ARG-50-300	580	<1 ppm	<0.5 ppm	<1 ppm	-	-	-
PREPURIFIED	4.8	99.998%	ARG-48-300	580	<5 ppm	<2 ppm	<5 ppm	-	-	-
INDUSTRIAL	C	99.997%	AR300	580	<7 ppm	<7 ppm	<10.5 ppm	-	-	<20 ppm
CARBON DIOXIDE										
RESEARCH	5.0	99.999%	CDI-50-50	320	<1 ppm	<0.5 ppm	<2 ppm	<0.1 ppm	99.999%	<1 ppm
SCIENTIFIC	4.8	99.998%	CDI-48-50	320	<2 ppm	<2 ppm	<3 ppm	<1 ppm	99.999%	-
LASER GRADE	4.5	99.995%	CDI-45-50	320	<5 ppm	<1 ppm	<5 ppm	-	99.995%	-
COLEMAN/ INSTRUMENT**	4.0	99.99%	CDI-40-50	320	<20 ppm	-	<10 ppm	-	99.99%	<50 ppm
ANAEROBIC	3.0	99.9%	CDI-30-50	320	<20 ppm	-	-	-	99.9%	-
BONE DRY	2.8	99.8%	CDI-28-50	320	-	-	<20 ppm	-	99.8%	-
LAB GRADE	2.0	99.0%	CD50LAB	320	<25 ppm	-	<50 ppm	-	99.0%	-
USP^^	USP	99.0%	CDI-USP-50	320	-	-	<200 ppm	<10 ppm	99.0%	-
BEVERAGE GRADE****	Bev	99.9%	CD50BV	320	<30 ppm	<50 ppm	<20 ppm	<10 ppm	99.9%	-
R744 REFRIGERANT GRADE		99.9%	R744-50	320	-	-	<10 ppm	-	-	-
FOOD GRADE+++	FG	99.5%	CD50FG	320	<50 ppm	<5 ppm	<20 ppm	<10 ppm	99.5%	-
INDUSTRIAL	G	99.0%	CD50	320	<50 ppm	-	<32 ppm	-	99.0%	-
** Coleman Grade has <50 ppm N2		! Part# Needs to be built		^^ USP-CO2 also has ≤1ppm H2S, ≤2.5ppm NO, ≤25ppm NH3, ≤5ppm SO2, ≤2.5ppm NO2						
**** Beverage CO2 has <2.5ppm NH3, <2.5ppm NO/NO2, <10ppm non-volatile residue, <5ppm non-volatile organic residue, <10ppm methanol, <0.2 acetaldehyde, <20ppb aromatic hydrocarbons, <0.02ppm benzene, <0.1ppm total sulfur, <1.0ppm SO2, <0.3ppm phosphine										
+++ FGCO2 has <0.5ppm Carbonyl Sulfide, <0.5ppm hydrogen sulfide, <5.0ppm NO+NO2, <10mg/kg nonvolatile hydrocarbons, <5ppm SO2, <0.5ppm acetaldehyde, <0.5ppm total sulfur content										
HELIUM										
GRADE 7	7.0	99.99999%	HEL-70-300	580	<50 ppb	<20 ppb	<50 ppb	<20 ppb	<20 ppb	<50 ppb
RESEARCH	6.0	99.9999%	HEL-60-300	580	<0.2 ppm	<0.1 ppm	<0.2 ppm	<0.1 ppm	<0.1 ppm	<0.4 ppm
UHP	5.0	99.999%	HEL-50-300	580	<1 ppm	<0.5 ppm	<1 ppm	-	-	-
PREPURIFIED	4.7	99.997%	HEL-47-300	580	<5 ppm	-	<5 ppm	-	-	-
ZERO	4.8	99.998%	HEL-48-300	580	-	<0.5 ppm	-	-	-	-
INDUSTRIAL	L	99.995%	HE300	580	<5 ppm	-	<15 ppm	-	-	-
HYDROGEN										
RESEARCH	6.0	99.9996%	HYD-60-300	350	<0.2 ppm	<0.1 ppm	<0.5 ppm	<0.1 ppm	<0.1 ppm	<0.3 ppm
UHP^	5.0	99.999%	HYD-50-300	350	<1 ppm	<0.5 ppm	<1 ppm	-	-	<5 ppm
ZERO	4.5	99.995%	HYD-45-300	350	-	<0.5 ppm	-	-	-	-
PREPURIFIED (PP)	4.0	99.99%	HYD-40-300	350	<20 ppm	-	<10 ppm	-	-	-
PREPURIFIED (CK)	4.7	99.997%	HYD-47-300	350	<3 ppm	<5 ppm	<8 ppm	-	-	-
INDUSTRIAL	3.5	99.95%	HY300	350	<30 ppm	-	<20 ppm	-	-	-
^Purity Plus H2 Grade 5.0 also has <5 ppm N2										
NITROGEN										
RESEARCH	6.0	99.9999%	NIT-60-300	580	<0.2 ppm	<0.1 ppm	<0.2 ppm	<0.1 ppm	<0.1 ppm	-
UHP	5.0	99.999%	NIT-50-300	580	<1 ppm	<0.5 ppm	<1 ppm	-	-	-
ZERO	4.8	99.998%	NIT-ZE-300	580	-	<0.5 ppm	-	-	-	-
PREPURIFIED	4.8	99.998%	NIT-48-300	580	<5 ppm	-	<5 ppm	-	-	-
LAB GRADE	4.0	99.99%	NIT-LAB-200	580	<10 ppm	-	<8 ppm	-	-	-
EXTRACTION GRADE	EX	99.99%	NIT-EX-300	580	<10 ppm		<10 ppm	<10 ppm		
NF (MEDICAL)	2.0	99.0%	NIT-NF-300	580	< 1 %	-	-	<10 ppm	-	-
FOOD GRADE	FG	99.0%	NIT-FG-300	580	< 1 %	-	< 55.8 ppm	< 10 ppm	< 300 ppm	
INDUSTRIAL	B	99.00%	NI300	580	< 10 ppm	-	-	< 10 ppm	-	-
NITROUS OXIDE										
ATOMIC ABSORPTION	2.6	99.6%	N20-26-50	326	-	-	<30 ppm	-	-	-
USP****	2.0	99.0%	N20-USP-50	326	1 %	<1 ppm	<200 ppm	<10 ppm	<300 ppm	<300 ppm
N20-AA: AIR<2000 ppm				**** N20 - USP ≤ 25 ppm NH3,and < 25 ppm NH3 1ppm on NO, NO2, & Halogens						
OXYGEN										
RESEARCH	5.0	99.999%	OXY-50-300	540	99.999%	<0.5 ppm	<1 ppm	<1 ppm		<5 ppm
UHP**	4.3	99.993%	OXY-43-300	540	99.993%	<0.5 ppm	<3 ppm	-	-	<10 ppm
ZERO	2.8	99.8%	OXY-28-300	540	99.8%	<0.5 ppm	-	-	-	-
EXTRA DRY	2.6	99.6%	OXY-26-300	540	99.6%	-	<10 ppm	-	-	-
USP	2.5	99.5%	OXY-USP-200	540	99.5%	-	-	-	-	-
AVIATOR	2.6	99.6%	OX300AV	540	99.6%	-	<5 ppm	-	-	-
INDUSTRIAL	2.0	99.0%	OX300	540	99.0%	-	<20 ppm	-	-	-
ppm stands for Parts Per Million					**O2-UHP also has <40ppm Ar			**O2-RESEARCH also has <5 ppm Ar		
*THC stands for Total Hydrocarbons					✧ AA-C2H2 < 4000 PPM O2 + CH4, < 20 PPM PH3					