VALUTEK

INNOVATIVE SOLUTIONS FOR CRITICAL ENVIRONMENTS

Product spec comparison - Valutek vs National Brands

		VTGNCRBTIO2F12	VTGNCRB12	Halyard PureZero HG3		Kimtech Pure G3 NXT		Kimtech Pure G3 White		Kimtech G3 EVT		VWR CERTICLEAN Class 10		Ansell 93-401
Parameter	**Test method**													
Glove design		Ambidextrous	Ambidextrous	Ambidextrous		Ambidextrous		Ambidextrous		Ambidextrous		Ambidextrous		Ambidextrous
Cleanroom class		Class 10 (ISO Class 4)	Class 10 (ISO Class 4)	ISO Class 3		ISO Class 3		ISO Class 3		ISO Class 4		Class 10		Class 10
Length (mm)	**ASTM D6319**	290 min	290 min	305		305		305		295		305		305
Surface finishing		Fingertip textured	Fingertip textured	Fingertip textured		Fingertip textured		Fingertip textured		Fingertip textured		Fingertip textured		Fingertip textured
Friction -Doning side (gmf)	**ASTM D1894**	<90	<90	NA		NA		NA		NA		NA		<90
Friction -Gripping side (gmf)		160-260	110-200	NA		NA		NA		NA		NA		150-190
Thickness - (mm)	**ASTM D6319**													
- Cuff		0.08 min	0.08 min	0.10		0.10		0.10		0.06		0.10		NA
- Palm		0.10 min	0.10 min	0.13		0.14		0.14		0.08		0.13		NA
- Finger		0.12 min		0.16		0.18		0.18		0.13		0.16		NA
Palm width - (mm)	**ASTM D6319**													
-XS		75 +/- 5	75 +/- 5	70		74		74		74		74		80
-SM		85 +/- 5	85 +/- 5	80		84		84		84		84		85
-MD		95 +/- 5	95 +/- 5	95		96		96		96		96		95
-LG		105 +/- 5	105 +/- 5	110		111		111		111		111		105
-XL		115 +/- 5	115 +/- 5	120		116		116		116		116		115
-2XL		125 +/- 5	125 +/- 5	NA		123		123		123		123		
Pin holes	**ASTM D5151**	AQL 1.5; G1	AQL 1.5; G1	AQL 1.0 ; G1		AQL 1.5; G1		AQL 1.5; G2		AQL 1.5; G2		AQL 1.5; G1		AQL 1.5; G1
Pigment - Titanium Dioxide (TiO2)	**SEM EDX**	Absent	Present	Present		Present		Present		Present		Present		Present
LPC - (counts/cm^2)	**IEST-RP-CC005.4**	< 600	< 600	< 950		< 950		< 950		< 950		Upper limit 950		< 400
Tensile strength - (Mpa)	**ASTM D412**	> 18	> 18	> 20		> 18		> 18		> 18		> 14		NA
Elongation - (%)		> 500	> 500	> 600		> 500		> 500		> 500		> 500		300% min.
Ions - (ug/cm^2)	**IEST-RP-CC005.4**	**(ug/cm^2)**	**(ug/cm^2)**	**(ug/cm^2)**	**(ug/g)**	**(ug/cm^2)**	**(ug/g)**	**(ug/cm^2)**	**(ug/g)**	**(ug/cm^2)**	**(ug/g)**	**(ug/cm^2)**	**(ug/g)**	**(ug/cm^2)**
- Chloride (Cl)		< 0.20	< 0.20	<0.23	35.00	< 0.23	35.00	< 0.23	35.00	<0.12	30.00	< 0.23	35.00	< 0.20
- Nitrate (NO_3)		< 0.12	< 0.12	<0.13	20.00	< 0.13	20.00	<0.10	15.00	<0.13	32.00	< 0.10	15.00	< 0.100
- Sulphate (SO_4)		< 0.06	< 0.06	<0.07	10.00	< 0.07	10.00	<0.07	10.00	<0.04	10.00	< 0.07	10.00	< 0.010
- Fluoride (F^-)		< 0.001	< 0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
- Bromide (Br)		< 0.001	< 0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
- Nitrite (NO_2)		< 0.001	< 0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
- Phosphate (PO_4^{3-})		< 0.002	< 0.002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
- Calcium (Ca)		< 0.30	< 0.30	<0.33	50.00	< 0.33	50.00	<0.30	45.00	<0.16	40.00	< 0.30	45.00	< 0.50
- Sodium (Na)		< 0.02	< 0.02	<0.07	10.00	< 0.03	5.00	<0.03	10.00	<0.02	10.00	<0.03	10.00	< 0.05
- Potassium (K)		< 0.02	< 0.02	<0.03	5.00	< 0.03	5.00	<0.03	5.00	<0.02	5.00	<0.03	5.00	< 0.02
- Magnesium (Mg)		< 0.005	< 0.005	<0.03	5.00	< 0.03	5.00	<0.03	5.00	<0.02	5.00	<0.03	5.00	< 0.005
- Lithium (Li)		< 0.005	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0001
- Ammonium (NH_4^+)		< 0.005	< 0.005	<0.03	5.00	< 0.03	5.00	<0.03	5.00	<0.02	5.00	<0.03	5.00	NA
- Zinc (Zn)		< 0.07	< 0.07	<0.17	25.00	<0.04	7.00	<0.17	25.00	<0.10	25.00	<0.17	25.00	< 0.050
- Aluminum (Al)		< 0.01	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.020
- Iron (Fe)		< 0.005	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02
- Copper (Cu)		< 0.0004	< 0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.010
NVR (IPA) - (ug/cm^2)	**IEST-RP-CC005.4**	< 5.0	< 5.0	NA		NA		NA		NA		NA		< 5.0
NVR (DI Water) - (ug/cm^2)		< 2.0	< 2.0	NA		NA		NA		NA		NA		NA
FTIR(Silicone, Amide and DOP)	**IEST-RP-CC005.4**	Absent	Absent	NA		Absent		Absent		Absent		NA		Absent
Electrostatic Decay - (sec)	**FTMS 101C Method 4046**	< 5 secs	< 5 secs	NA		NA		NA		NA		NA		< 5 secs
Tribo Charge - (V)	**In-house,WI-QA/15-10**	50 V	50 V	NA		NA		NA		NA		NA		NA
Surface Resistivity - (ohms/square)	**ANSI/ESD STM11.11**	<1E+11	<1E+11	NA		NA		NA		NA		NA		<1E+11

ug/cm2 = the measurement of a specific ionic content in microgram over 1 cm2 surface area of the glove

ug/g = the measurement of a specific ionic content in microgram over 1 gram weight of the glove

Convert ug/cm2 to ug/g :- Reading in ug/cm2 X Total Glove Surface Area ie. ug/glove

:- Reading in ug/glove ÷ Total Glove Weight in gram ie. ug/g

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