

KLEENGUARD® ULTRA

COVERALLS

THE ULTIMATE
IN COMFORTABLE PROTECTION



COMFORT THAT PROTECTS

The patented three-layer fabric construction of KLEENGUARD® ULTRA features a middle layer of microporous film that allows heat and sweat vapor to escape, yet protects against many dry particulates and liquids, even under pressure. It also passes ASTM F1670/1671† testing for penetration of blood, body fluids and



CONSTRUCTED WITH REFLEX* COVERALL DESIGN

General Protection

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blood-borne pathogens. And the thicker, more uniform outer layers provide even better protection of the film barrier against tearing and abrasion. This results in the ultimate combination of durability, comfort and protection. Available in denim blue.

PROPERTIES OF KLEENGUARD® ULTRA Apparel Fabric		
PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Tensile Strength (MD)	ASTM D5034	27.2 lbs
(CD)		18.7 lbs
Trapezoidal Tear (MD)	INDA IST 100.2	7.1 lbs
(CD)		4.3 lbs
Elongation (MD)	ASTM D5034	37.9%
(CD)		61.7%
Mullen Burst	ISO 13938-1	40.6 psi
Static Decay (<0.5 sec)	NFPA 99	Pass
Flammability	CPSC 1610	Class 1
BARRIER PROPERTIES	TEST METHOD	RESULTS
Hydrohead	AATCC 127-1998	226 cm
Blood Penetration	ASTM F1670	Pass
Blood-Borne Pathogens	ASTM F1671†	Pass
COMFORT PROPERTIES	TEST METHOD	RESULTS
MVTR	ASTM E96	2725 g/m ² /24 hr

LIQUID CHEMICAL RESISTANCE TEST / KLEENGUARD ULTRA FABRIC	
CHEMICALS (ASTM F1001)	PENETRATION ASTM F903 (PROCEDURE C)
Carbon Disulfide	Pass Δ
Dichloromethane	Pass Δ
n-Hexane	Pass
Sodium Hydroxide (50%)	Pass
Sulfuric Acid (97%)	Pass
Tetrahydrofuran	Pass
Sodium Hypochlorite (100% household bleach)	Pass
Valspar Isocyanate Hardener (100%)	Pass Δ

Δ **WARNING:** Fabric passes Penetration testing; however, the chemical is considered a known/suspected carcinogen or skin absorbed toxin.

† Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System.

KLEENGUARD® ULTRA PROVIDES BLOODBORNE PATHOGEN BARRIER		
	KLEENGUARD® ULTRA	NEW TYVEK®
ASTM F1670		
Blood Penetration	Pass	Fail
ASTM F1671†		
Blood Borne Pathogen	Pass	Fail

Typical Uses

Ideal for wet jobs in:

- Manufacturing plants
- Tank cleaning
- Emergency medical response
- Liquid handling
- Cleaning applications
- Rubber manufacturing
- Pressure washing
- Farm and agricultural settings
- Fiberglass handling
- Utilities
- Nuclear facilities
- Embalming/Forensics
- Crime Scene Clean-up

COVERALLS — Denim Blue

Zipper front, no elastic

STYLE	SIZE	CASE COUNT
45232	M	24
45233	L	24
45234	X L	24
45235	XX L	24
45236	XXX L	20
45237	XXXX L	20

Zipper front, storm flap, elastic back, wrists, ankles

STYLE	SIZE	CASE COUNT
45002	M	24
45003	L	24
45004	X L	24
45005	XX L	24
45006	XXX L	20
45007	XXXX L	20

Zipper front, storm flap, elastic back, wrists, ankles, hood

STYLE	SIZE	CASE COUNT
45022	M	24
45023	L	24
45024	X L	24
45025	XX L	24
45026	XXX L	20
45027	XXXX L	20

Zipper front, storm flap, elastic back, wrists, ankles, hood & boots

STYLE	SIZE	CASE COUNT
45092	M	24
45093	L	24
45094	X L	24
45095	XX L	24
45096	XXX L	20
45097	XXXX L	20

Comfort
that
Protects