

## BULL TECHNICAL SPECIFICATIONS

Bull is semi-aniline, enhanced grain leather with two-tone matte finish.  
As a Leathershield product, it offers excellent durability for heavy traffic areas with minimal maintenance.



PROPERTY	TEST METHOD	RESULT
Average Hide Size		50 FT2
Average Thickness	ISO 2589	1,2 - 1,4 mm
Tensile Strength	ISO 3376	min 10 N/mm2 = 17.30
Elongation at Break	ISO 3376	35%-70% = 65.94%
Tear Strength	EN ISO 3377-1	20 N = 115.75
Flexing Endurance (20,000 cycles)	EN ISO 5402	NO DAMAGE
Color Fastness to Artificial Light	ISO 105 B 02	min 4 (Blue Scale)
Color Fastness to Rubbing (500 Dry Rubs, 250 Dry Rubs)	EN ISO 11640 , EN ISO 11640	Grade (Grey Scale), Grade 4-5 (Grey Scale)
Color Fastness to Rubbing (20 Sweat)	EN ISO 11640	min 3/4 (Grey Scale) = 4-5
Finishing Adhesion	EN ISO 11644	min 3N/cm = 9,8cm
Determination of pH	EN ISO 4050	min. 3, se pH < 4, pH <0.7 = 3.92
Soil Release: Oily Stain Method (Ketchup)	AATCC #130-2018	Grade 5
Soil Release: Oily Stain Method (Veg Oil)	AATCC #130-2018	Grade 5
Soil Release: Oily Stain Method (Wine)	AATCC #130-2018	Grade 5
Cigarette Ignition Resistance	UFAC/NFPA 260	Pass
Fire & Burning Behaviour (Cigarette & Match)	BS 5852:2006	Pass
Ignitability BS 5852-0 (Cigarette)	BS EN 1021-1:2014	Pass
Ignitability BS 5852-1 (Match)	BS EN 1021-1:2014	Pass
Ignitability BS 5852-5 (Wooden Crib)	no	Can be tested at an outside facility
California Technical Bulletin 117-2013	Cal Tech Bulletin 117-2013	Class 1
Boston Fire Dept	BFD IX-I	Pass
Wyzenbeek - (Oscillatory Cylinder Method) @ 100,000 cycles	ASTM D 4157.07	Pass
REACH	1907/2006/EC	Produced in conformance with REACH directives.
Ignitability EN 1021-2 (Flame)	EN 1021-2	Pass
Water Repellency: Spray Test	AATCC 22-2017	95
Water Resistance: Hydrostatic Pressure Test	AATCC 127-2017	>1000.0
Oil Repellency	AATCC 118-2020	Pass # 5
Aqueous Liquid Repellency	AATCC 193-2017 (Water/ Alcohol)	Grade Number 8 (40:60/water: isopropyl alcohol)
Soil Release: Oily Stain Release Method (Blood)	AATCC #130-2018	Grade 5
Soil Release: Oily Stain Release Method (Urine)	AATCC #130-2018	Grade 5
Cold Crack	ISO 17233	No Finish Cracks
Blocking Resistance	D6116	No Blocking



LeatherShield™



Antibacterial

