

Smart Testing Grid - Leather

Guidance only - laboratories must make a professional judgement as to the exact tests required for each chemical formulation to demonstrate MRSL conformance																												
	ZDHC Gateway Categories 4.0 - Latest version for review	AP & APEO	Toluenes	Chlorobenzenes +	Chlorophenols	Amines	Carc. Aromatic Amines	Navy Blue Dyes	Dye-Carc. Or Equiv.	Dye-Dispers	Flame Retardants	Glycols	Solvents, Halo.	Organotins	PAH	PFC	Phthalates	Heavy Metals (As, Hg, Cd, Pb, Cr(VI))	VOC	Chlorinated Paraffins	Anti-Microbials & Biocides	Borate, Zinc salt	Bisphenol A	Thiourea	quinoline	AEEA [2-(2-aminoethoxy)ethanol]	UV Absorbers	
2	PRODUCTION - LEATHER																											
2.1	ACIDS																											
2.1.a	Acids_Hydroxy-carboxylic acids (Deliming agents)																											
2.1.b	Acids_Mineral acids	X	(X)	(X)							X					(X)	X	(X)										X
2.1.c	Acids_Organic acids	X	(X)	(X)							X					(X)	X	(X)										X
2.1.d	Acids_Blend of organic and inorganic acids	X	(X)	(X)							X					(X)	X	(X)										X
2.2	AUXILIARIES																											
2.2.a	Antifoam / slip agents	X									(X)																	
2.2.b	Leveling agent	X	(X)							X	X		X					X						(X)				X
2.2.c	Defoamer	X								X	X							X										X
2.2.d	Foam stabilizer	X											(X)															
2.2.e	Penetrator	X																										
2.2.f	Rheology Modifier	X											(X)															
2.2.g	Water and effluent treatment chemicals																											
2.3	BASES																											
2.3.a	Bases_Ammonia or Amino-																											
2.3.b	Bases_Calcium formate																											
2.3.c	Bases_Lime (calcium hydroxide)																											
2.3.d	Bases_Magnesium oxide																											
2.3.e	Bases_Sodium acetate trihydrate																											
2.3.f	Bases_Sodium bicarbonate		(X)	(X)							X						X	(X)										
2.3.g	Bases_Sodium carbonate		(X)	(X)							X						X	(X)										
2.3.h	Bases_Sodium formate		(X)	(X)							X						X	(X)										
2.3.i	Bases_Sodium hydroxide		(X)	(X)							X						X	(X)										
2.3.j	Bases_Blends																											
2.4	BEAMHOUSE AGENTS																											
2.4.a	Bating and other enzymes (Proteins)	X																										
2.4.b	Bleaching or dehairing agent																											
2.4.c	Sequestering agents	(X)								(X)							X											(X)
2.4.d	Soaking Agents	X									(X)																	
2.5	DEGREASING AGENTS																											
2.5.a	Degreasing agents_anionic e. g. Alkyl-Benzene-Sulfonates	X									(X)																	
2.5.b	Degreasing agents_non-ionic, other Alkyl-polyglycol Ethers (APEO free)	X									(X)																	
2.5.c	Degreasing agents_non-ionic Ethoxylated fatty alcohol (APEO free)	X									(X)																	
2.5.d	Degreasing agents_cationic or amphoteric e.g. Ethoxylated fatty amines	X									(X)																	
2.5.e	Degreasing agents_non-ionic and anionic, APEO containing	X									(X)																	
2.6	DYEING AUXILIARIES																											
2.6.a	Penetration, Levelling, Build up and Fixing Dyeing Auxilliaries														(X)											x		
2.7	DYESTUFFS & PIGMENTS																											
2.7.a	Dyestuff (aqueous based)_Acid azodyes	X	(X)	X	X	X								X			X								X			X
2.7.b	Dyestuff (aqueous based)_Basic azodyes	X		X	X		X								x			(X)							x			
2.7.c	Dyestuff (aqueous based)_Direct dyes	X	(X)	X	X	X								X			X								X			X

