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Test Specification

Product:	Match Sticks		
Scope:	Match Sticks.	Protocol No.	TYCP-01054-NA
		Version	1.0
		Issue Date	15 Jan 2013
		Prepared by	Intertek HK - TFH
		Page	1 of 7

NB: Where there is no applicable US or CN standard, Intertek has chosen the most relevant International standards to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.

Attribute	Citation	Requirement / Limit	Result
Supplemental Protocol			
For US Only			
*†CA Prop 65	Intertek Protocol	Consent Judgment of related court cases based on California	
(mandatory in state		Proposition 65.	
California)			
Note: Additional cost, san	nple size & TAT may be requ	uired if testing to one or more supplemental protocols is necessary.	
Please refer to the above	referenced supplemental pr	otocol(s) for additional information.	
Chemical Analysis			
For US Only			
*Lead Content of Paints	16 CFR 1303	Shall not contain Lead or Lead compounds in which the Lead content is	
or Similar Surface	(Scope widened)	in excess of 0.009% by weight of the total content (90ppm).	
Coating			
*†Toxic Elements in	TPCH	Shall comply with TPCH in those states with legislation. Total	
Packaging Components		concentration of Pb, Cd, Hg and hexavalent $Cr \leq 100$ ppm.	
For Canada Only			T
*Total Lead in Surface	Canada Consumer	Shall not exceed 0.009% (90ppm) total lead.	
Coating	Product Safety Act,		
	Surface Coating		
	Materials Regulations		
	(Scope widened)		
Physical Characteristic		1 -	1
Overall Dimensions	ITS-M0059	Report overall dimensions; shall meet label claims (if applicable).	
Thickness - Splint	ITS-M0059	Report thickness; shall meet label claims (if applicable).	
Overall Weight	ITS-M0059	Report overall weight; shall meet label claims (if applicable).	
For US Only			
Type of match –	Fed. Spec. A-A-59489	Type I (Paper – Class A: 30 Splint Book,	
classification	Section 2	Class B: 20 Splint Book,	
		Class C: 10 Splint Book)	
		Type II (Wood – Class A: Large, "Kitchen" Size Sticks,	
		Class B: Medium Size Sticks,	
		Class C: Small, "Pocket" Size Sticks)	
Match head	Fed. Spec. A-A-59489	Shall be evenly applied over ends and sides of splints and sticks.	
	Section 3.2		

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Attribute	Citation		Requirem	nent / Limit		Result
Count	Fed. Spec. A-A-59489 Section 3.3	Type I, Class B: S Type I, Class C: S Type II, Class A: A Type II, Class B: A Type II, Class B: A	hall be 30 matche of two rows. hall be 20 matche of two rows. Shall be 10 matche of two rows. Average number s ho box shall conta Average number s ho box shall conta Average number s	es per book, with es per book, with es per book, with shall not be less th in less than 230 r shall not be less th in less than 21 m	10 splints on each 5 splints on each nan 250 per box & natches. nan 27 per box & atches. nan 32 per box &	
Dimensions	Fed. Spec. A-A-59489 Section 3.4				Width	_
	Section 5.4	Classification	Splint / stick with head	ngth Splint, head and base	Width	
		Type I, Class A	35 ± 3mm (1-3/8" ± 1/8")	48 ± 3mm (1-7/8" ± 1/8")	48 ± 2mm (1-7/8" ± 1/16")	
		Type I, Class B	35 ± 3mm (1-3/8" ± 1/8")	48 ± 3mm (1-7/8" ± 1/8")	30 ± 2mm (1-3/16" ± 1/16")	-
		Type I, Class C	35 ± 3mm (1-3/8" ± 1/8")	48 ± 3mm (1-7/8" ± 1/8")	16 ± 2mm (5/8" ± 1/16")	-
		Type II, Class A	60 ± 3mm (2-3/8" ± 1/8")	-	2.5mm (0.10")	-
		Type II, Class B	50 ± 3mm (2" ± 1/8")	-	2.3mm (0.09")	-
		Type II, Class C	44 ± 3mm (1-3/4" ± 1/8")	-	2mm (0.08")	-
		NOTE: Type I rep each match stick.	resents width of e	each row. Type II r	epresents width of	
Striking Surface	Fed. Spec. A-A-59489 Section 3.5	The striking surface with a preparation surface shall not p	which will be use		x shall be coated tches. The striking	
Construction & Workm						
Sharp Points / Edges	With reference to 16 CFR 1500.48 / 1500.49	Shall have no sha required for function		s received, other	than those	
Defects	Visual Check	Shall have no diso shivering, bubbles lines, waves, shea blisters.	s, cracks, stains, c	leformations, chip	s, fractures, heavy	
For US Only	-	-				
Workmanship	Fed. Spec. A-A-59489	No defects. (No s				
Friction	16 CFR 1202.4(a)(c)	Shall be located o matchbook and no	one shall be locat	ed on the inside o		
Cover	16 CFR 1202.4(b)	Shall remain close	ed without externa	al force.		

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Attribute	Citation	Requirement / Limit	Result
Bridges / Broken Bridges	16 CFR 1202.4(d)	Shall be no bridges or broken bridges.	
Matchhead Condition	16 CFR 1202.4(e)	Shall not be chipped, split, cracked, or crumbled.	
Matchhead Location	16 CFR 1202.4(f)	No portion of matchhead shall be located outside the cover when closed.	
Staple/Assembly Device	16 CFR 1202.4(g)(h)	Shall not be within or touching the friction area and shall be fully clinched so that the ends are flattened or turned into the cover.	
For Canada Only			
Match Ignition	Canada Consumer	The ignition compound shall be uniformly applied to the end of the	
Compound	Product Safety Act, Hazardous Products (Matches) Regulation, Section 5(a)	splint of the match.	
	Canada Consumer Product Safety Act, Hazardous Products (Matches) Regulation, Section 5(c)	The ignition compound shall not, upon being ignited, crack, explode or drop as glowing particles from the match	
Match Striking Tip	Canada Consumer Product Safety Act, Hazardous Products (Matches) Regulation, Section 5(b)	The tip shall not be split, chipped, cracked or crumbling or adhere to the striking tip of another match.	
Match Splint	Canada Consumer Product Safety Act, Hazardous Products (Matches) Regulation, Section 5(d)	The splint of the match shall not have an afterglow that lasts longer than three seconds	
Match Head Location	Canada Consumer Product Safety Act, Hazardous Products (Matches) Regulation, Section 6(a)	The cover shall be constructed such that all the match heads are covered when the book is closed.	
Staple/Assembly Device	Canada Consumer Product Safety Act, Hazardous Products (Matches) Regulation, Section 6(b)	The fastening wire shall not pierce or loosen the striking surface.	
Friction Paint	Canada Consumer Product Safety Act, Hazardous Products (Matches) Regulation, Section 6(c)	Friction paint shall not be on the inside cover within 1 inch of the match head.	
Striking Surface Location	Canada Consumer Product Safety Act, Hazardous Products (Matches) Regulation, Section 7	Shall be located on the opposite side of the opening.	

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Attribute	Citation	Requirement / Limit	Result
Performance Test			
Functionality	ITS-M0061	Shall function as intended as received.	
Effects of Extreme Temperature and Humidity	ITS-M0007	 Shall have no corrosion or visual change (e.g. peeling off of coating and/or plating) after one cycle of following conditioning: 16 h at 0 °F; 8 h at 120 °F, 95% RH. 	
		Match sticks after subjected to the above conditioning shall still be functional.	
For US Only			
Performance Test	Fed. Spec. A-A-59489 Section 3.7	100 matches shall be tested. Each match shall be struck on the striking surface until it ignites or becomes damaged. 5 or more failures shall result in rejection of the lot.	
Humidity Resistance Test	Fed. Spec. A-A-59489 Section 3.8	100 matches shall be conditioned at 95% RH & 100°F for 6 hrs. Immediately upon removal from the chamber, each match shall be struck on the striking surface until it ignites or becomes damaged. 30 or more failures shall result in rejection of the lot.	
Igniting Performance - Match	Fed. Spec. A-A-59489	Must ignite effectively without breakage of the splint, head or without cracking, exploding or afterglow.	
Spontaneous Ignition – Hot Air Oven	Fed. Spec. EE-M-101J Section 4.3.2	Note: Matches must be conditioned for a minimum of 48 hrs in at atmosphere maintained at 50 % R.H. at 73.5 +/-2°F (22 to 24°C) prior to the following testing. Place matches in wooden block fixture in circulating hot air oven and raise the temperature to 194 +/- 2°F (90°C) per Section. Expose matches to this environment for 2 hrs. Matches shall not ignite during this period.	
For Canada Only			
Spontaneous Ignition Test	Canada Consumer Product Safety Act, Hazardous Products (Matches) Regulation, Schedule I	Shall not ignite after 2 hours in an oven @ 194°F +/- 2°F (90°C +/- 1°C).	
Labeling Requirement			
Parts Labeling	ITS-M0060	Shall match the actual content if present.	
Use Labeling	ITS-M0060	Use, care and/or assembly instructions that are clear and understandable shall be provided in language appropriate to destination countries.	
Instructions	ITS-M0060	Shall provide an easy understandable instructions regarding assembly, use and maintenance	
Verify Label Claims	Actual Use	Shall comply with all claims.	
For US Only			
One Time Use Products	F.P. & L. Act (16 CFR 500)	Manufacturer, packer, or distributor's name & address (city, state & zip).	
†Fair Packaging and	OR	Product Identification.	

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Attribute	Citation	Requirement / Limit	Result	
Labeling Act OR All	NIST Uniform Laws and	Net quantity of contents shall be expressed in terms of weight or mass,		
Other Products	Regulations Handbook	measure, numerical count, or combination so as to give accurate		
	130	information to facilitate consumer comparison (U.S. and metric units).		
†Uniform Packaging				
and Labeling				
Regulations				
†Country of Origin	19 CFR 134.11	Shall indicate country of origin legibly, permanently, and in comparable		
Marking		size and close proximity to any mention of country other than country in		
		which the article was manufactured or produced. Shall be visible at		
		point of purchase.		
Marking	16 CFR 1202.6	The manufacturer's or private labeler's name and city or a symbol		
		which will identify the name and city shall appear on the matchbook. In		
		addition, every private labeler must label the matchbook with a code		
		which enables it to identify, if requested, the manufacturer of the		
		product. Boxes or cartons in which two or more caddies are shipped		
+DI) // a set Observed of	shall be marked "For safety, store in a cool, dry place."		
†Plastic Bag Warning	Visual Check /	If plastic bags with a thickness less than 1 mil and an opening size $\geq 5^{\circ}$		
Statement (If	Requirements Based on Various State Laws	in diameter are present, the following warning statement shall be		
applicable)	various State Laws	printed in a prominent place on each bag in English and appeared on both sides:		
		Dour sides.		
		WARNING: Keep this bag away from babies and children. Do not use		
		in cribs, beds, carriages or playpens. The thin film may cling to nose		
		and mouth and prevent breathing. This bag is not a toy.		
		If the total length and width is > 40", the warning shall be repeated in		
		20-inch intervals. The font size shall adhere to:		
		Total Length and Width of Bag Font		
		60 inches or more at least 24 point		
		40 inches to less than 60 inches at least 18 point		
		25 inches to less than 40 inches at least 14 point		
		less than 25 inches at least 10 point		
For Canada Only		at least 10 pullit		

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Attribute	Citation	Requirement / Limit	Result
†Pre-packaged Product	Consumer Packaging and Labelling Act, R.S. 1985, c. C-38 and	The net quantity declaration shall present on Principal Display Panel (PDP) in English and French, metric units.	
	Regulations, C.R.C., c. 417	The numerical quantity shall be bold type with letter height based on the size of Principle Display Surface (X):	
		Size of Principle Display Surface $X \le 32 \text{ cm}^2$ (5 in²)Minimum letter height 1.6 mm (1/16 in)	
		$32 \text{ cm}^2 < X \le 258 \text{ cm}^2 (40 \text{ in}^2)$ $3.2 \text{ mm}(1/8 \text{ in})$ $258 \text{ cm}^2 < X \le 645 \text{ cm}^2 (100 \text{ in}^2)$ $6.4 \text{ mm} (1/4 \text{ in})$	
		$645 \text{ cm}^2 < X \le 25.8 \text{ dm}^2 (400 \text{ in}^2)$ $9.5 \text{ mm} (3/8 \text{ in})$ $25.8 \text{ dm}^2 (400 \text{ in}^2) < X$ $12.7 \text{ mm} (1/2 \text{ in})$	
		All other information in the net quantity declaration (i.e. units of measurement statements, abbreviations, symbols, etc.) shall be shown	
		in minimum 1.6 mm letter height. Product identification shall be shown on Principal Display Panel (PDP)	
		in English and French, minimum 1.6 mm letter height.	
		Dealer's name and principal place of business (address) shall be shown on any part of label except bottom, English or French, minimum 1.6 mm letter height.	
		For imported goods, the name and address of the dealer outside Canada or	
		the name and address of Canadian dealers shall be preceded by "imported by" ("importé par") or "imported for" ("importé pour"), unless a	
		statement of geographic origin is located immediately adjacent to the	
		name and address of a Canadian dealer, and shown with letter height at least as large as those used in the declaration of the Canadian dealer's principal place of business.	
The Language of Inscription (mandatory	The Charter of French Language, Title I,	Every inscription on the following shall be drafted in French, - product	
in Quebec)	Chapter VII, Clause 51 &	 product container or wrapping document or object supplied with it (e.g. directions for use, 	
	Regulations adopted	warranty certificates)	
	under the Charter of French Language	No inscription in another language may be given greater prominence than that in French.	
		For exceptions, check the following webpage:- http://www.olf.gouv.qc.ca/english/regulations/reg_business.html#div1	
†Country of Origin	Customs Tariff, Marking of Imported Goods	The country of origin marking of Non-NAFTA imported goods shall be present in English or French.	
	Regulations, SOR/94-10		

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Attribute	Citation	Requirement / Limit	Result
Marking	Canada Consumer Product Safety Act, Hazardous Products (Matches) Regulation, Section 4	 The following shall be placed on the book, box or container that covers or encloses the matches in a clear and legible manner: a) The manufacturer of matches that have been manufactured in Canada, or b) The importer or distributor of matches that have been manufactured outside Canada The name and mailing address of the wholesaler of matches that have been manufactured in Canada may be shown in place of the name and address of the manufacturer of those matches if an identification number, assigned to the manufacturer by the Minister of Consumer and Corporate Affairs, shall be shown in close proximity to the name and address of the wholesaler. 	

Remark: Additional tests may be incurred subject to the final samples reviewed by Intertek. †: Mandatory Requirement

Key: *: Additional charge items

Testing Charge & Sample Size & Turnaround Time

Basic Package Price (Listed Price)	USD 644 for US market;		
•	USD 192 for Canada market		
Sample size for basic package	300 matches for US market:		
· · · ·	2 box of matches with at least 15 matches for Canada market		
	(additional samples may be required for tests with additional charge)		
Turnaround time for basic package	7 working days	· · · · · · · · · · · · · · · · · · ·	
- ·			
Additional charge (Subject to client discount)		Additional sample size	
a. CA Prop 65	On quote	Subject to actual sample	
 Lead Content of Paints or Similar Surface Coating (US) 	USD 31 per coating	0.5 grams of coating on finished product	
c. Toxic Elements in Packaging Components	USD 54 per result	0.5 grams per material	
d. Total Lead in Surface Coating (CN)	USD 31 per coating	0.5 grams of coating on finished product	
Remark:	• • •		
Price quoted above is Listed price based on our Hong	Kong laboratory pricing.		
Please check with local laboratories to confirm exact pr	• • •		

Revision History

Issue No.	Revision date	Changes	Prepared by	Approved by
1.0	08 Oct 2012	Initial release	Mondy Tung	Taylor (Emily) on 08 Jan 2013

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