|  |  |  |
| --- | --- | --- |
|

|  |  |
| --- | --- |
| XOS_logo_PMS654.jpg | Tel: +1 518.880.1501 / Email: info@xos.com |

 |
|

|  |
| --- |
| newsletter-image-1_web..jpg |

 |
| http://cdn1.hubspot.com/hub/70580/dove-shadow.gif |
|

|  |
| --- |
| Children's Jewelry: Testing with HDXRFCPSC Approved Quantification |

 |
|

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
| **In this issue:**Testing Jewelry with HDXRFEN71-3 Compliance ScreeningHow to Test Thin Coated Samples |
|

|  |
| --- |
|  |
| See our HD Mobile and HD Prime Analyzer [**videos**](http://t.hsms10.com/e1t/c/%2AW4pbkgz4WRDGGW6JtbXg2LbFKz0/%2AW2mQRY91r-7fzW8G08bn7KR35h0/5/f18dQhb0SmhS8XJ9TCW7KWyw32qwv27W31SYhN3225wrMf5p52XD6prW39Dr-N8pCDJmW96RdFf96Ls81W6cc-6T6bdFWkW1nxD492z3pz_W7lVx695CbYpZW7d78J490G7thW8S23M92yJF1WVYT2jk6P4lCXW3Vpx8-7NrMZsW3ndqZK6gF7LRN4Dk-X28CndHMz74JcYSX-5W7m_B1R5c8d-SW377W2J4FbYLVMRs50S2gM2yW8RkMmL3MtwTSW8Sfm0p2p1Z-YN5j7zxSP5657W4q-LDh3B5wFNW7yB2mH5BXLP1VfmlBB3LwKcdVGcFrB5tqR89W8Lgvkm8nzwsvW1psXHS2TryMfW2yh--D1qNPBXW49kJ936fVLYvW1Q68w61MMh8vW3gtt1l3JBBdMW8r4rk28r-2KbW3MqmQh1zlX53W7gYswV4H3Y0tW8LMy9387BrcbW6w4y-J4xfP3vW3KqGR_9k05tGW5DTd334_LL69102).Access [**recorded webinars**](http://t.hsms10.com/e1t/c/%2AW4pbkgz4WRDGGW6JtbXg2LbFKz0/%2AVXhlfQ6CnWQxMK9w2qb5l9z0/5/f18dQhb0SmhR8XJbXvW7KWyw32qwv27W31SYhN3225wrMf5qSTXD6prW39Dr-N8pCDJmW96RdFf96Ls81W6cc-6T6bdFWkW1nxD8k6b0-bSW50SW5n90G7thW8S23M92yJF1WVYT2jk6P4lCXW3Vpx8-7NrMZsW3ndm6j49WVsfW2ZbRxN44YXpCW6G2lbz7NMdQNV4cNXy75WRHJW7s9ftk91Jr_fW85C5xr5RHvVDVTp91y7tFtLgW7LWn5J5mjFClW5T172l4QtWBTW3vLDyF5rkHWwW2CD0Qg82kCttW4-WHpg1Fs2TmW5RXQhJ85bqfSW2bJgKz5n5YddW30xGW-8Gw8jHW91m9XT5gSHY5W6H5NXC6hz0s8W2bzNQY5ZZH6sN6xBB0TJpjSrN6y4D9sJVLpMVY3vM81Ngx1cW51bGqV6s0vQ1W4Vn60h1RLGtYW29mpMF6wjRWtW1kVLHm6SP8K2V14xqm7zPGCH103) about rapid screening of elements at regulatory levels using HDXRF. |

 |
|

|  |
| --- |
|  |
| Visit us at:[**Toy Fair**](http://t.hsms10.com/e1t/c/%2AW4pbkgz4WRDGGW6JtbXg2LbFKz0/%2AW2xd9NS96X3gFW3WjL8S7vVGr20/5/f18dQhb0S8388YXMXYW7KWyw32qwv27W31SYhN3225wrMf5jxxXD6prW39Dr-N8pCDJGW96sdlf5Cqws9W4vgKM1999f65W6PVJWy625bx1W6Gj8TS6bVy-5N25hvjFHZ5KNW5D8zFF5m3ZGGW96dt4S4r1QvYVDPqsR8gjY6LW8WBKbV56sy_8W2NhXFJ1S9n_xVJM-P14QJ0Q2W1S6jQt6YGLGqN1ftM8Zpjn_gW31M9P25l8zj4W8k8c4B4c-vxfW7p1Ms513JDYYW8T6D4C6XjbFMW7rCmS94bwk1wW7v0wW71hJpF5W5n6QBL12g2D-W3pp1Lf1hZjZLN4lBZ6FnpF8MW1Q68w61MMh8vW3gtt1l3JBBdMW8r4rk28r-2KbW3Mqbk53shXF8W5hfQL48pg0qxW74s4tp91NCMSVN79BX8Z8SP5W10TP0X82PJCZW7L5Tpl7r2nvkdSn_2W04)(Toy Industry Association) Jacob K. Javits Convention CenterBooth #5345 New York, NY February 14-17, 2015[**ICPHSO Annual Meeting**](http://t.hsms10.com/e1t/c/%2AW4pbkgz4WRDGGW6JtbXg2LbFKz0/%2AW3hD2HJ6XDjlzW2mQSNs8TXbcH0/5/f18dQhb0SmhZ8XJ9fqW7KWyw32qwv27W31SYhN3225wrMf5dGYXD6prW39Dr-N8pCDLQW7lDYRy96fd7GW8yGHJ34rz4C_W6bp1cw992nrWN5CR161PnfXVVcNnNL6PVJWyW625bx16Gj8TSW6bVy-525hvjFVHZ5KN5D8zFFW5m3ZD658vKqSW1nq9rQ18dKPTW1VJwxb7WmcjJW97rB1b8yg4ByW64ZhsJ34pYjHW4swWqv22GxR7N3dQnfDTjCBkW4TCyfM10rkfVW3j6HXH4VCQ9tW8rC0dy94S5ZQN5sry09NDB7wW4XR5fF5BkGCWN1pF9S2VpQDjW1qqGp0992-K5N3NpYQnSlK68VdSNwx7wTZy2W9jW9nN8csGDVVD2JBL7354BZW5MXD3v5yNPHpW3vBMFH3gf1VkW5L1tSq19rc8kW7prCyc4NQMFZW8KrN5W1vhphNW8wfhgm1_MC7NW6MtYR6656gnWW1F0b031FQ06-0)Orlando, FloridaFebruary 23-26, 2015 |

 |

 | Locket-webThe ASTM Children’s Jewelry Safety Specification F2923–11 and the ASTM Adult Jewelry Safety Specification F2999–13 both establish requirements and test methods for specified hazardous elements in addition to other potential dangers like magnets and batteries. This application note demonstrates the power of HDXRF and its ability to screen and quantify lead, cadmium, nickel, and the remaining F963 regulated heavy elements in jewelry.The specification for lead in both adult and children’s jewelry is for total lead content. All children’s jewelry materials including metal components, plastic, glass, etc., shall not exceed 100 parts per million (ppm) lead for substrates and 90 ppm for paint and other similar surface coatings with the exception of exempt materials listed in Table 2 of F2923–11, which include, but are not limited to, precious metals, wood, textiles, and precious gemstones. HDXRF has been approved by CPSC for quantification of lead in homogeneous substrates, and it’s the only CPSC-approved alternative to wet chemistry for quantification of lead in paint and similar surface coatings.[**Access the full Application Note (PDF)**.](http://t.hsms10.com/e1t/c/%2AW4pbkgz4WRDGGW6JtbXg2LbFKz0/%2AW27nXD887n5k-W6xjqX_6bwTPk0/5/f18dQhb0S8378YXNgWW7KWyw32qwv27W31SYhN3225wrMf5f0WXD6prW39Dr_73S_lz1W7cFs0t7cFLQQW6PZgGL8p7yxkW5tW3gp6PVJWyW625bx16Gj8TSW6bVy-525hvjFVHZ5KN5D8zFFW5m3ZGG96dt4SW4r1QvY1PXWzMW8gjY6L8WBKbVW56sy_82NhXFJW8X4QL77Kq0ygW4gnzH35LM9byW3n_90r2dYfB4W2tc78B1Cc_XDW57LVcy4N4dQQW1FbCfg1zB031W1RMT8Q8S_McGN8grB4VtyWkpW6ypFzh4fw_KZN2QZ1vwnQ5yZVrzZLJ7s287tW1RXYgf4lBZ6FVnpqXY1Q68w6W1MMh8v3gtt1lW3JBBdM8r4rk2W8r-2Kb3Mqs3RW3_bPqH5mRgWyW6Mx9P17PbG0wW1_pTM47XT5PHW8crclQ7yRMHnW3nwk633LSNWHf3FXBbb11)Jewelry_app_note_cover  |

 |

 |
|

|  |  |  |
| --- | --- | --- |
| HDXRF: Measuring Coatings on Thin Samples |  | EN71-3 Compliance Screening with HDXRF |
| Thin_Coated_Sample_XRFWhen performing any analytical technique, adherence to correct procedure and sample preparation are critical. This brief application note summarizes the correct technique by which to measure coatings on thin samples, such as screen print on textiles, decals, and stickers,  using the HD Prime or HD Mobile analyzer powered by HDXRF® technology.[**Access the full Application Note (PDF).**](http://t.hsms10.com/e1t/c/%2AW4pbkgz4WRDGGW6JtbXg2LbFKz0/%2AW8JM6915vR1WHW68nvLG4Qd_4B0/5/f18dQhb0S8358XJ9TCW7KWyw32qwv27W31SYhN3225wrMf5w3qXD6prW39Dr_73S_lz1W7cFs0t7cFLQQW6PZb2y5CRfSZW51LTdD6b-LdDW1nrCGw96zRPSW6bT6L38RRjRDW5Ckvpl6vYDb4W7v70tS4RYYVxW3s1XjF51FX0QW8gZKWp94q7cqW6VKJl21hC_8gW5lppHt5gWpTcW7BrrYW1VcfkXW7sdP8Y2w1Bv4W43zxRv8g8RhNW7j21N63-wbGtW44856H3HdhsLW6hFw0W550bk6N12fSnVsJtKnW6Wjj7g5qmnXlW4FT4bw4Pg2XtVNb7JP85mL72W4qvxKw2XBfkTW3qY36q4NqFndMVzQv-Vn7DDW1FdLwH6xlwNWW8X4cD08WxMwDW1Vcd0r6Dbj8sW7mt3V-82R1kKW8BFxG95JdYh8W3-XkCz8QfQRkW3PWG2q6nPTJZW6ytD8s6krJsR111) |  | Toy_Train_HDXRFHDXRF offers extremely low limits of detection, outperforming traditional XRF technology and helping meet the EU Directive 2009/48/EC, commonly referred to as the Toy Safety Directive.[**Access the full XOS handout (PDF)**](http://t.hsms10.com/e1t/c/%2AW4pbkgz4WRDGGW6JtbXg2LbFKz0/%2AW6L_kjg9lDsfrVbjn0h4Vgndk0/5/f18dQhb0S8348XJ8hgW7KWyw32qwv27W31SYhN3225wrMf5wNlXD6prW39Dr_73S_lz1W7cFs0t7cFLQQW6PZpH58qSS2fW1nrCGw96zRPSW6bT6L38RRjRDW5Ckvpl6vYDb4W7v70tS4RYYVxW3s1XjF51G0BFW4Z09Tj57-WqMW3H_Pty2DzCtRW1zB6B966TDjwW2W9qhp2kGvT0VDkffS5SZ3-8MncJbZqVbTzW2m2rzd7W6X3RW77ZCqh88nQlmW1hl15232fC1XW8k1b3v6s0_cyVGXnqs5Rhb6qN1sK4dF4QDYxW2qDnh588ZFCVW32wdQb8P1_V7W6Pc2MC9lvLdpW6s16_28Ph58-W59Bv7s7n80-YW2GFmJy7lc4CYW2Sw2v56Yy-hTW19rc8k7prCycW4NQMFZ8KrN5WW1vhphN8wfhgmW1_MC7N6MtYR6W656gnW8xf5gkf1f4_BY04). |

 |