




## CERTIFICATIONS & APPROVALS

### THERMAL TRANSFER RIBBONS

- All certifications and approvals covering ARMOR ribbons enable our customers to safely use their ribbons and to satisfy the requirements of very demanding applications and environmental concerns.

		WAX	WAX/RESIN	RESIN
 <b>Food contact (Europe)</b> European Directive 1935/2004/EC. This directive applied since the end of 2004 imposes that the matters in contact with food should not transfer their components in quantities likely to be dangerous for the health. Certificates received after analysis by an approved independent laboratory.	<b>LFGB</b> <b>Food contact (Europe)</b> Lebensmittel- und Bedarfsgegenstandesgesetz. Compliance with the rules of the German law concerning the handling of foodstuffs, tobacco products, cosmetics products and other consumer goods (Foodstuffs and Consumer Goods Act). This approval was previously referred to as BGA. Certificates received after analysis by an approved independent laboratory.	AWR®470 SolFree® AWR®6 AWX®FH	APR®6 APX®FH	AXR®7+ AXR®8
			APR®600 APR®600G APR®600R APR®600W APR®700 APX®650 APX®650MW	AXR®600 AXR®600B AXR®600G AXR®600R AXR®800
 <b>Food contact (USA)</b> Food and Drugs Administration. The FDA approval is based on the Code of Federal Regulations, §175.105 of the FDA chart. Ribbons are indirect food contact approved and can be used for the outer printing of food packaging materials. The ink may also come into direct contact with dry, non-fatty foodstuffs. In other direct food contact situations, the whole application has to be approved, not only the ink. Certificates received after analysis by an approved independent laboratory. Analysis reports are being renewed.	<b>UL</b> <b>UL Legibility and durability of the printed label</b> US Certification given by UL laboratory on a label & ribbon combination. It is certifying readability (barcode scanning) and durability (resistances) of a printed label. Lists of labels approved with ARMOR ribbons are available on 2go2 our Extranet site. You can also contact us. CSA, Canadian organisation, has the same purpose as UL in terms of printed labels. Log on 2go2 to know more.	AWR®6	APR®600G APR®600R APR®600W APR®700	AXR®600B AXR®600G AXR®600R
		AWR®470 SolFree®	APR®6 APX®FH	AXR®7+ AXR®8
 <b>The printed ink withstands immersion in seawater</b> BS 5609 A British Standard concerning overprinting on a pre-printed label. As for UL, it is certifying a label & ribbon combination. This standard is necessary to certify that goods labelled can be then subsequently shipped by ocean. It certifies that the safety information contained on the printed label is still legible after immersion in seawater for up to three months. Lists of labels approved with ARMOR ribbons are available upon request.			APR®600 APR®700 APX®650	AXR®600 AXR®600W AXR®800
				AXR®7+



ARMOR has the following certifications:  
 ISO 9001 : 2008, N°QUAL/2007/28312  
 ISO 14001 : 2004, N°ENV/2007/28315  
 OHSAS 18001 : 2007, N°SMS/2007/28316

Product data sheets are available on request in a downloaded PDF format on 2go2, your ARMOR Extranet: [www.armor-tt.com](http://www.armor-tt.com)  
 You will also find information on certifications and evaluation on the light fastness of ribbons.  
 For more information please contact us at: [salesttr@armor-group.com](mailto:salesttr@armor-group.com).

ARMOR Thermal Transfer ribbons are subjected to a large number of legislations and meet a lot of standards. In anticipation of demand from its partners, ARMOR has opted for certification with regard to international standards and legislation. This sheet gives some of these but is not an exhaustive list. For more information, please contact us by e-mail at: [salesttr@armor-group.com](mailto:salesttr@armor-group.com) or log on 2go2, your ARMOR Extranet, with your personal access on [www.armor-tt.com](http://www.armor-tt.com).

### ► MATERIAL SAFETY DATA SHEET

Safety data sheets relating to ARMOR Thermal Transfer products can be supplied to all users on request. They conform with directive 88/379/EC and its amendments and take into account directive 67/548/EC and its amendments. MSDS are available upon request and may be downloaded in PDF format on 2go2, your ARMOR Extranet.

### ► USE OF THE RIBBON / PRINTED INK

All Thermal Transfer ribbons produced by ARMOR are compliant with the European directives they are subjected to and their most recent amendments:

**67/548/EC:** gives a list of dangerous substances and sets restrictions on their use.

**1976/769/EC:** gives a list of CMR (carcinogenic, mutagenic and reprotoxic, or substances toxic to reproduction) substances and sets restrictions on their use.

**88/79/EC and 93/18/EC:** classify substances as flammable or dangerous to health.

**1994/62/EC:** ink considered as a component of a packaging complies with legislations regarding the heavy metal content in packaging and packaging waste. The maximum amount of heavy metals is set at 100ppm. All ARMOR ribbons have been analysed by an independent laboratory at levels of less than 50ppm.

**2000/53/EC (ELV):** restricts the use of certain substances from vehicles that have reached the end of their life.

**2002/95/EC (RoHS):** restricts the use of dangerous substances in electrical or electronic equipment. ARMOR TT ribbons are compliant with this directive, from the point of view of the use of the ribbon in the printer as well as the printed ink on equipment labels.

**2002/96/EC (WEEE):** restricts the use of dangerous substances in electrical and electronic equipment, as well as in their waste products.

**2003/11/EC:** gives a list of dangerous substances and sets restrictions on their use.

**REACH:** As a European manufacturer, ARMOR is completely fulfilling REACH requirements. Our ribbons are free from the Substances of Very High Concern (SVHC).

ARMOR TT Ribbons also respect the American regulations:

**Toxic Substance Control Act:** US official classification of chemicals based on CAS numbers. Toxic substances are classified on a negative list. Every component of all ARMOR ribbons are from the positive list, and therefore comply with Environmental Protection Agency.

**California Proposition 65:** regulation of the State of California listing chemicals identified as causing cancer or producing toxicity. None of these chemicals are contained in ARMOR ribbons (except for carbon black which as far as we know is present in every black TT ribbons).

### ► TREATMENT OF RIBBON PACKAGING / WASTE

All used ARMOR ribbons should be treated as ordinary industrial waste and disposed of in conformity with local regulations. Our cores are made of cardboard or polystyrene, and we use recycled cardboard and polyethylene film to pack our Thermal Transfer ribbons.

All of our ribbons and their associated packaging meet the following European Directives:

**1994/62/EC:** set acceptable concentration levels for heavy metals in packaging and in packaging waste and also require the recycling of packaging, through energy recovery or material recycling.

**2000/532/EC:** classify waste and regulate its elimination in accordance with this classification. According to these directives, TT ribbon waste is classified as 20 03 01.

**2004/102/EC:** the pallets used by ARMOR to deliver its ribbons are compliant with this directive, which regulates the use of wooden packaging, such as pallets.

### ► STORAGE

Our ribbons may be stored for up to 12 months at a temperature of between 5°C and 35°C, and at 20% to 80% humidity.

At the time of writing and to the best of our present knowledge, the above information is accurate but may not serve as a guarantee. To obtain an official commitment, please contact us by e-mail at the following address: [salesttr@armor-group.com](mailto:salesttr@armor-group.com).