



A SYNERGY  
BETWEEN  
LEATHER & INK

## ALUSSA iUL 20

Optimized ink set to reach high flex & abrasion performance on genuine leather

Alussa is a tailor-made inkjet solution for the leather industry, perfect for integration in tanneries and printing companies. The Alussa iUL20 UV-curable inkjet ink set smoothly copes with up to 100,000 dry flexes and 10,000 wet flexes. This 6-color & white ink set is designed to create very sharp images on leather, boasting a wide color gamut with vibrant colors.

THINK **AGFA** 

# Key benefits

- Patented ink formulation
- LED-curable inks dedicated to leather decoration
- Extremely high flexibility according to ISO 5402-1
  - Up to 100,000 dry flexes
  - Up to 10,000 wet flexes
- The low stickiness of the ink layer allows for stacking and storage prior to finishing, while also limiting the risk of dust contamination
- Environmental, Health & Safety (EHS) focus for the operator, product manufacturer and end-user
  - No skin sensitizer and CMR cat 1 products (classified as such according to the harmonized system of classification and labelling of chemicals (GHS))
  - No STOT SE products
  - Low level of formaldehyde release
  - Controlled level of extractables (below 30 mg/m<sup>2</sup>) if used according to the application notes
- Alussa iUL 20 inks are compliant with EuPIA guidelines for recyclable substrates. According to the EuPIA guidelines, Alussa recyclable sticky film remains recyclable if the iUL 20 inks are printed on it.
- Sharp print quality
- Good color fastness
- Wide color gamut: up to 600,000+ colors
- Excellent jetting performance and reliability
- Long latency time: low print head maintenance required (up to 90 min)
- Instant curing with UV LED technology (395nm)
- 6 pigmented color inks: (cyan/magenta/yellow/black/light cyan/light magenta) for smooth and colorful prints containing line work, photographic images, gradients...
- A dedicated white ink with high opacity which can be used as a pre-white to print on any color of leather (dark or light) or as a spot white to create beautiful highlights and details
- Ink set dedicated to the Alussa eTU 25 printer
- Ink set optimized to interact with the Alussa base-coat and top-coat coating formulations, which were developed together with TFL chemicals
- Partnership Agfa-TFL offers you best-in-class support & advice:
  - Agfa's vast expertise in the field of inkjet technology, workflow & color management
  - TFL's in-depth knowledge of coating chemistry and coating application techniques

# Specifications

COLORS								
<ul style="list-style-type: none"> <li>• 6 colors: CMYK, light C, light M</li> <li>• White ink</li> </ul>								
Technical specs								
	C	M	Y	K	light C	light M	W	
Static surface tension	[20-26] mN/m						[20-26]	
Viscosity (at 45° C)	[7.0-10.0] mPa.s							
Average particle size	<100 nm	<130 nm	175 nm	<150 nm	<100 nm	<130 nm	<250 nm	
Shelf life (when stored under recommended conditions)	12 months Extension possible up to 24 months						6 months Extension possible up to 12 months	
STORAGE CONDITIONS								
<ul style="list-style-type: none"> <li>• Storage in closed/sealed Agfa bottles</li> <li>• Temperature control between 4°C and 23°C</li> <li>• Not in direct sunlight</li> <li>• Not close to heating equipment and UV-light contamination radiation sources</li> </ul>								

# Safety information

Material Safety Data Sheets for Alussa iUL 20 inks are available according to EC regulation 1907/2006, containing details about all relevant safety data, including health & safety labelling according to the present EEC regulations. Such health & safety data may also be derived from the respective label. The Alussa iUL 20 ink set is fully compliant with REACH regulation, including the special provisions concerning SVHC (substances of very high concern) (list of version dated June 15, 2015). The Alussa iUL 20 ink set is compliant with the latest regulations related to textile & leather applications regarding the limitation of skin sensitizer (classified as such according to the harmonized system of classification and labelling of chemicals (GHS)).

Alussa iUL 20 inks do not contain:

- CMR category 1 products
- Skin sensitizers with a harmonized classification
- STOT SE products
- NMP (N-Methyl-2-Pyrrolidone)
- Heavy metals: lead, chromium, cadmium, mercury, arsenic, antimony, cobalt, zinc, selenium, barium, boron, strontium, nickel

Additional EHS related information:

- Formaldehyde release << 1 mg/m<sup>2</sup> in a W+C combination
- Acetaldehyde & acetone release << 30 mg/m<sup>2</sup> in a W+C combination

# Agfa ink development

Agfa ink development and manufacturing is executed according to the Quality Management System of Agfa, which is ISO9001 & ISO14001 certified.

[www.agfa.com/alussa](http://www.agfa.com/alussa)

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