

# TEXTILE (& CHEMICAL) EXPERIENCE of Dr. Wolf / updated 2018

## Brief summary of apprentices, colleges, studies

- **Textile-Finishing Technician** with Diploma - Austria - 3 years apprentice ship - diploma
- **Chemo-Technical college** - long distance (during Army-services) - Austria - 1 year online - certificate
- **Synthesis & Formulation of Textile Chemicals** - Switzerland - 6 months practice (Sandoz AG)
- **Textile Chemistry Technician B.Sc. / HTL** - Austria - 3 years (diploma)
- **Textile Engineering / Textile Finishing M.Sc. - Studies / HTL Austria** - 3 years (diploma; award)
- Various courses and seminars with machine and chemical suppliers
- **ISO 9001:2015 / IATF 16949 / ISO 13485:2016 Internal Auditor**

## Worked in the following companies:

**GETZNER TEXTIL AG** from 1981 - 1984 as **FINISHING TECHNICIAN (Austria)**

**TEXCHEM Ltd.** (SANDOZ/Archroma) from 1989 - 1991 - as **HEAD OF CHEMICLAS PRODUCTION / FINISHING CONSULTANT (East Africa)**

**CHT/BEZEMA AG (CHT)** from 1991 - 1999 - as **DIRECTOR of International Sales and Finishing Consultant (Eastern and Central Europe)**

**IMATEX SA de CV** from 2000 - 2004 as **SALES MANAGER** and Agent for Monforts, Benninger, Zimmer, Scholl-THEN (Fongs), Brazzoli, Arioli, Automation Partners, Ramisch-Guarneri, Santex (**Mexico, Mexico City**)

**DENIMART SA de CV** from 2007 - 2008 as **PLANT DIRECTOR / TECHNICAL DIRECTOR** (Mexico, PUE)

**KALTEX** as **TECHNICAL DIRECTOR** (**Mexico, SJR**)

**BTK Group** from 2013 - 2015 as **HEAD of BUSINESS UNIT TEXTILES and COO** for TEXTILES DIVISION (Weaving, Knitting, Finishing) (**Russia, St. Petersburg**)

**ZWISSTEX Group (GERTEX-ZOEPPRITEX Mexico S.de R.L. de C.V.) 2017/2018** – **PLANT DIRECTOR / Legal Representative**

**OTHER unnamed textile companies** have been consulted via my **WOLF-INTERNATIONAL** activities

Detail summary of professional experiences in the field (status quo 2018)

## SPINNING (on the job as Technical Director in medium sized manufacturer)

As Technical Director I have been responsible in one company for the spinning department but due to lack of time and also in-depth knowledge my involvement was limited (I had an excellent spinning manager). Good basic knowledge of yarn-spinning Ring & OE. (Torsion, alpha, yarn specs, problems in weaving and subsequent finishing - i.e. **troubleshooting in spinning during product developments**).

## WEAVING (on the job as Technical Director in medium sized manufacturer)

As Technical Director I have been responsible in 2 companies also for the weaving depts. overlooking the management of the weaving manager with tasks such as **KAIZEN improvements, LEAN Manufacturing., cost reduction, troubleshooting** mainly on **new product development** and on lower efficiencies, **starting up of small weaving units** with entire weaving preparation (Karl Mayer, Staeubli, etc.) and looms (Dornier - Rapiere).

## GENERAL WOVEN & KNIT FINISHING (on the job as Technical Director in medium & large sized manufacturer)

**Fabric cleaning, singeing, de-sizing, bleaching** - on the job experience, in-depth-knowledge - all technologies)

**Dyeing** - (from exhaust, cold pad batch to continuous dyeing methods on all substrates with all available dye-groups) on woven & knit fabrics

**Printing** - (flat screen & rotary) small on the job experience, in-depth-knowledge of printing physics and in-depth-experience

**Printing chemistry** - (dyes and chemicals on all fibers and printing methods and processes)

**Dry & Wet Finishing** - full in-depth and on the job experience of finishing processes such as **resin-finishes, chintzing, calendaring, sanforizing, sueding, crushing, fluoro-carbon finishes**, including special finishes such as **Africa Damast, coating and solvent-coating**.

**Lamination** - Advanced knowledge and on the job experience in lamination processes (PTFE membrane lamination), coating (in combination with coating e.g. solvent silicon, foam, PU etc.)

**Dry finishing processes** on knits such as peach skin, brushing & shearing, sanforizing.

The **proportion of finishing experience** on **woven to knit** fabrics could be rated with 80 % wovens and 20 % knits.

The **proportion of experience** determined **by different substrate types** could be rated with 40% Cotton, 20 % PES, 20 % PA, 5 % Wool, 5 % Viscose and Mixtures and the remainder Kevlar, PAC, Silk, and various blends.

## DENIM-Finishing (on the job as Technical Director in medium & large sized manufacturer)

**Denim Slasher & rope dyeing** on the job and in-depth-experience with indigo, pre-reduced indigo, sulfur and cationic dyes (participation in the patent-development of EVERCROME, Latin America).

**Denim Finishing** on the job with in-depth-knowledge such as **desizing, finishing, skewing and sanforizing** and **laminating**.

Advanced knowledge in Denim garment finishing (air-brushing, laundry with stone, chlorine, enzymes, permanganate, dyeing, resin-finishing, special finishing, spraying etc.)

Advanced & in-depth knowledge of **new Denim dyeing method** developments with **foam applications** and eco-friendly pre-reduced indigo dyes saving up to 70 % of chemicals (Co-development of GASTON SYSTEMS with Dr. Wolf). Special achievements in cost-reduction through automatic feed-back controlled sanforizing. **Industrial studies** of using **pre-reduced indigo dyeing technology** vs. classic Indigo dyeing processes.

**AUTOMOTIVE TEXTILES** (current: on the job and as Interim Plant Mgr. for USA/MEXICO production)

**Lamination Technologies** (flame-lamination, belt-lamination on powder incl. BSD (wide-slot) technology)

**Dyeing & Finishing - 3<sup>rd</sup> party supplier consulting** (for T2 supplies)

**Warp-Knitting Production** for automotive and non-automotive industries (incl. spacers etc.)

**PRODUCT DEVELOPMENT** (on the job as Technical Director in medium & large sized manufacturers (2))

**Leading & Managing R&D (and testing-) laboratories** and product development teams with the aim of copying products of leading textile companies for other companies (woven & knit fabrics), leading teams to develop proprietary **Functional fabrics** in DENIM (CO, PES/CO), woven (CO, PES/CO, PA 6.6) and knits (CO) and WOOL (fabrics). In-Depth R&D and upscaling industrial **production of High-Tech Army fabrics**. These developments involved all above named technical disciplines of textile finishing, laboratory testing (ISO and/or AATCC).

**Co-Inventor of the Everchrome® process** (registered trade mark in Latin America) i.e. the world's first genuine brilliant colored Denim Slasher Dyeing Method with reduced begin-to-end color differences over 10.000m (cationic dyestuffs)

**Knowledge of many ISO/EN normatives** such as all basic Textile Testing normatives but also special ones such as **EN 31092** Energy and Steam Permeability (**Rct, Ret, etc.**), **EN ISO 15831** Measurement of Thermal Insulation and so forth.

**PRODUCT DEVELOPMENT activities** on technical textiles.

**SPECIAL TEXTILE-CHEMICAL RELATED KNOWLEDGE** (on the job as Technical Director in large sized manufacturers (2))

Advanced to in-depth knowledge of **all kinds of textile machinery & plant design** for creating **technical project & starting up new weaving, knitting and finishing plants**.

Advanced knowledge to in-depth-knowledge on **textile dyes and chemicals** – for all uses (**fashion, TECHTEX, automotive**)

Advanced knowledge of all **chemical fiber physics** (PAC, PA, Carbon Fibers etc. ) and its applications

Basic to advanced knowledge and product development work in **WATER TREATMENT PLANTS** (biologic-chemical-physical) including troubleshooting on large water-treatment plant for one of the world's largest denim & dyeing operations.

**Formulation of textile chemicals and dyes** mainly for the textile industry

**Inventions under Pattern Protection Developments® in PVC confection industry** (Large Format Digital printing Industry)

**SPECIAL DIGITAL-PRINTING EXPERIENCE** (on the job as Managing Director in one of Germany's largest LF-Digital Printer)

As former Managing Director of a **Large Format Digital Printing** company in Germany I know how to organize and trouble-shoot production (incl. media & pre-press dept.) on large format digital printers (CMYK, 6 pr 8 colors) on substrates such as PVC foil (Megaprints, building wraps, truck print etc., hard covers, TYVEG, PES and other textiles inclusive PVC confection (hot or HF welding).

**SPECIAL TEXTILE FINISHING (Pretreat.-Dyeing-Printing-Finishing) MACHINERY RELATED KNOWLEDGE**

As a technical & sales consultant over 4 years for companies such as **MONFORTS, KUESTERS, BENNINGER, ZIMMER PRINTING MACHINES, ARIOLI, SCHOLL, THEN (FONGS), XETMA, EVS, AUTOMATION PARTNERS** I also have in-depth knowledge of textile machineries. As former Managing Director of the worlds "finest" Garment Screen Printing Producer MHM also in-depth knowledge of these type of machines

**SPECIAL TEXTILE KNOWLEDGE IN THE NOWO-SECTOR (TECH TEX)**

**In depth knowledge of raw materials** (fiber science), mechanical processes such as opening, carding, cross-lapping, needle punching, finishing & drying and calendering, technologies of bonding (bi-components or chemical), in-depth knowledge of physics of Fleece & Felt making. Basic knowledge of plant operations of NOW ranges incl. needle punch. Quality control and laboratory testing methods of insulation material (e.g. ISO EN15831, EN 14058, EN 11092 . . . Rct and Ret values e.g.). Consulting assistance in designing NOWO ranges for wadding and felting fleeces. (Asselin-Thibeau/ ANDRITZ, PTF)

**SPECIAL CHEMICAL FORMULATION KNOWLEDGE - outside textile industry**

**Formulation of creams & pastes in the cosmetic and dental industry** (ISO 13584, EN medical devices directives)