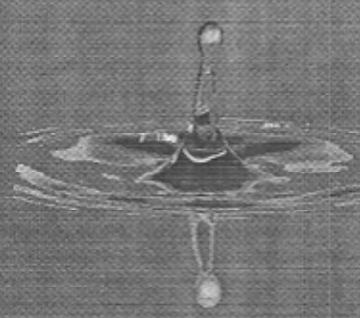


Rudie Smith
06-5-2

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Rudie Smit
Business Manager Wet Cleaning/Commercial Laundry
Miele Inc, Princeton NJ

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Wet Cleaning

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The Attraction of Professional Wet Cleaning

- Lowest total cost per pound processed*
- Unrivalled cleaning results
- No environmental impact
- Minimal maintenance
- No hazardous materials
- No health and safety concerns
- No record keeping obligation

* City of LA study March 2004, Final CDC/ATAR February 2006, PPERC October 2002/November 2004

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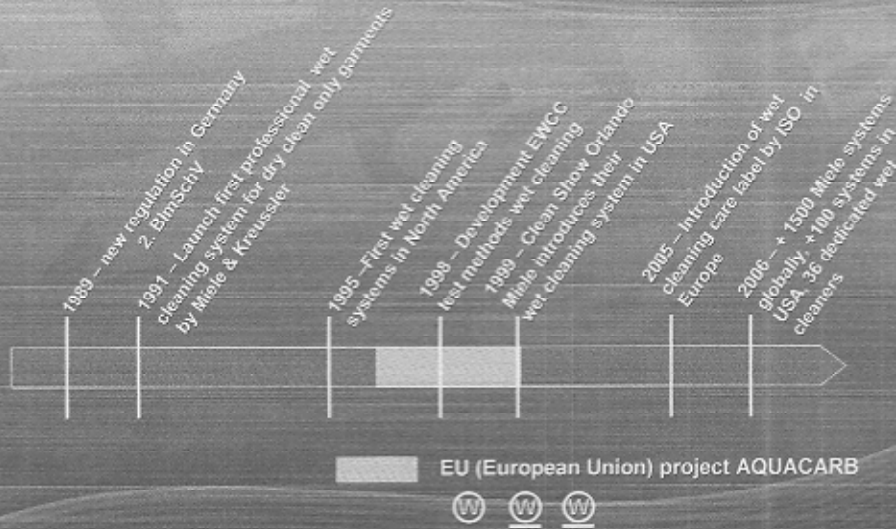


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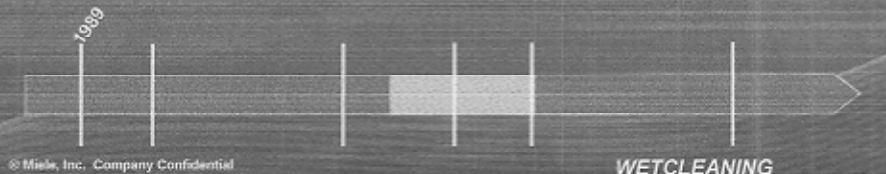
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1989: Clean Air Act and Water Resources Act in Germany

-regulated maximum ppm perc in wheel at end of cleaning process

-regulated maximum permissible ppm perc in air in adjacent residential and public access buildings or food processing/consumption areas



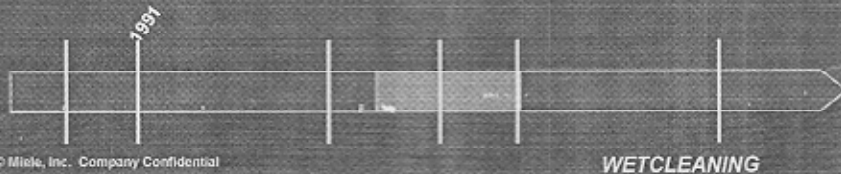
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1991: Miele and Kreussler launch first professional wet cleaning system only after they were convinced that the system would:

- ensure an extremely high percentage of "dry-clean only" garments could be processed safely
- provide superior cleaning results
- be one of the most economical to run



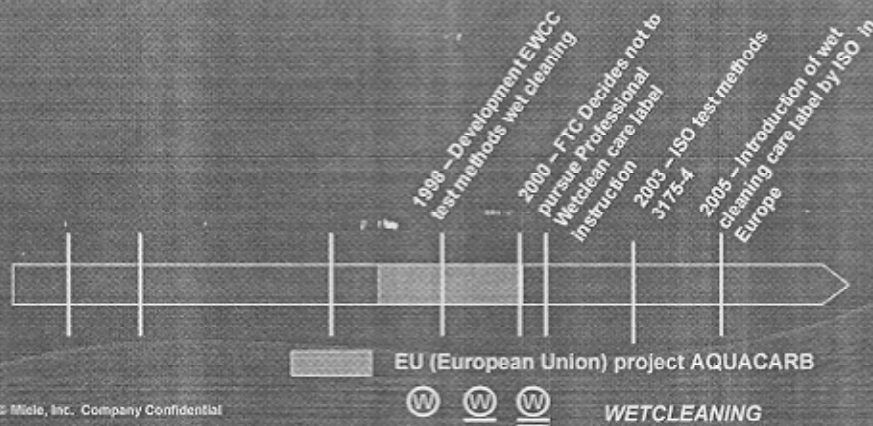
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Development of care label instructions



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Care Label GINETEX

Symbol	Textile care process
	— professional dry cleaning in tetrachloroethene and all solvents listed for the symbol F — normal process
	— professional dry cleaning in tetrachloroethene and all solvents listed for the symbol F — mild process
	— professional dry cleaning in hydrocarbons (distillation temperature between 150 °C and 210 °C, flash point between 30 °C and 70 °C) — normal process
	— professional dry cleaning in hydrocarbons (distillation temperature between 150 °C and 210 °C, flash point between 30 °C and 70 °C) — mild process
	— do not dry clean
	— professional wet cleaning — normal process
	— professional wet cleaning — mild process
	— professional wet cleaning — very mild process

B.2.2 GINETEX members require the use of the trademarked 5-symbol label.

B.2.3 The dry cleaning instructions are required to be always positioned within the 5-symbol label. If information on both dry and wet cleanability is to be given, the dry cleaning symbol is required to be positioned within the 5-symbol label, with the wet cleaning symbol positioned directly under the dry cleaning symbol.

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Care Label GINETEX

	— professional wet cleaning — normal process
	— professional wet cleaning — mild process
	— professional wet cleaning — very mild process

The wet cleaning care symbol was introduced by ISO in May 2005 under standard 3758:2005.




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Care Label GINETEX

	— professional wet cleaning — normal process
	— professional wet cleaning — mild process
	— professional wet cleaning — very mild process

The circle denotes professional textile care required.

Normal process: washable articles that for performance reasons should be professionally wet cleaned




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Care Label GINETEX

	— professional wet cleaning — normal process
	— professional wet cleaning — mild process
	— professional wet cleaning — very mild process

Mild process: "Do Not Wash" as tested to ISO 6330 (standard wool)

Very mild process: "Do Not Wash" as tested to ISO 6330 and extremely sensitive to mechanical action (angora, silk)

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Care Label GINETEX

European Wet Cleaning Committee developed test methods for ISO labeling. Test methods were restricted to the "gentle" or "sensitive" process and the "very gentle" or "very sensitive" process.

Testing was done on A1 wool (untreated woolen fabric of the International Wool Secretariat).

Shrinkage values set at 50 (+5)% for gentle and 25 (+2.5)% for the very gentle process when compared to shrinkage resulting from (European) household washing machines.

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EWCC test methods

EWCC "Gentle process"				EWCC "Very gentle process"			
Wash	Pre-wash	30°C	5 min	Wash	Main wash	30°C	10 min
	Drain						
	Main wash	30°C	10 min				
	Spin						
	Rinse	Cold	5 min		Spin		
	Drain						
	Spin				Rinse	Cold	5 min
					Drain		
Drying		60°C	2 min		Spin		
	to 12-15% residual moisture			Drying		40°C	2 min

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Why is water inevitable in Professional Garment Care?


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Cleaning Results



Components	Proportion	Solubility
Dust, metal oxides, rub-off, aerosols	50 %	None (Mechanical action)
Sugar, salt, drinks, body extractions	30 %	Water
Starch, albumen, milk, food	10 %	Water
Skin grease, wax, fats, oils	10 %	Water (in cleaning)

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