

# POLISHING CLOTHS DEVELOPMENT RANGE

## FOR CONVENTIONAL OR DIAMOND ABRASIVES

### RESEARCH AND DEVELOPMENT











The LAM PLAN research and development department meets several industrial polishing applications everyday. Each one of the cloths detailed hereafter formed the subject of one or more of these applications.

LAM PLAN places the entire range of cloths at its customers disposal for industrial trials. In terms of the trial's results the LAM PLAN and AQUA LAM technicians have the capacity to adapt any cloth to the specific needs of your application.













Type	Structure		Characteristics	Sample
LAM 560 AL	Compressed fibres	MR +++ F +++ FoR ++	Compressed calibrated and coated fibres. Intended to be used for polishing mineral and organic glass and for geology. Precision and efficiency.	
LAM 1432 AL	Cerium felt	MR +++ F ++ FoR ++	Felt loaded with cerium oxide for glass polishing. Replaces loaded polyurethane. Preserves the flatness. Stands up very well to wear and tear. Versions with or without adhesive (to be specified when ordering).	
LAM 1433 AL	Alumina felt	MR +++ F ++ FoR ++	Felt loaded with fine alumina. Suitable for the polishing of certain metals (aluminium, stainless steel, etc.) and for fine deburring. Stands up well to wear and tear. Versions with or without adhesive (to be specified when ordering).	
LAM 1444 AL	Loaded felt	MR +++ F ++ FoR ++	Felt loaded with semi-hard resin. Suitable for the aspect polishing of hard materials. Use with AL <sub>2</sub> O <sub>3</sub> or cerium, even Sic. Versions with or without adhesive (to be specified when ordering).	





(MR) Material removal - (F) Flatness - (FoR) Finish or Roughness - (n.u.) not usable

Type	Structure		Characteristics	Sample
LAM 1701 AL	Microfibres	MR + F ++ FoR +++	Microfibres intended to be used for the superfinishing and nanofinishing of medium and soft materials. Stands up very well to chemical mechanical-chemical polishing agents.	
LAM 1702 AL	Specific woven	MR ++ F + FoR ++	Superfinishing of metals and single crystals. Stands up to acids and bases. Gives priority to low roughness.	
LAM 1706 AL	Synthetic material	MR ++ F ++ FoR +++	Soft synthetic finish support. Stands up very well to acids and bases. Versatile use. Favours low roughness without detriment to the flatness.	
LAM 1709 AL	Specific woven	MR +++ F + FoR +	Use up to 6 μ. Favours the retention of the abrasive and removal of the sludge. Robust and efficient. Particularly well suited to conventional abrasives including Sic and AL <sub>2</sub> O <sub>3</sub> .	
LAM 1711 AL	Specific material	MR ++ F ++ FoR ++	Thin pad. Favours flatness and even polishing. Version without adhesive stretchable in 3D. Can be adapted to the following tool shapes : concave, convex or spherical.	
LAM 1712 AL	Composite fibres	MR + F + FoR +++	Composite fibres with specific orientation. High density. Favours the shine. Low level of alteration in flatness. For delicate polishing.	
LAM 1714 AL	Non-woven	MR ++ F +++ FoR +++	Non-woven for low roughness. A very good compromise. Suitable to single crystals, semiconductors, connectics.	
LAM 1715 AL	Compressed fibres	MR ++ F +++ FoR ++	High resilience. Compressed laminated fibres. Gives very even surfaces. Suitable for polishing requiring a very high degree of flatness.	
LAM 1717 AL	Welded fibres	MR ++ F +++ FoR +	Hot welded fibres. Reduced bearing surface stimulating the circulation of the abrasive flows. Nanofinishing and finishing of electronic materials and semiconductors. Delicate polishing.	
LAM 1718 AL	Non-woven	MR +++ F ++ FoR +	Thin non-woven, grid-shaped structure. Thermal strengthened fibres and resin coating. Semifinishing of electronic materials and large semiconductors.	

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Type	Structure		Characteristics	Sample
LAM 1719 AL	Deformable fibres	MR ++ F ++ FoR ++	Highly absorbent fibres with marked 3D mobility, developing a high resilience to wear and tear. Cloth can be bought without adhesive or direct bonding onto the following tool shapes : concave, convex or spherical.	
LAM 1720 AL	Soft fibres	MR ++ F +++ FoR +++	Mix of complementary fibres. Suitable for the finishing of hard materials. Preserves evenness. The non-adhesive versions is extensible in 3D.	
LAM 1722 AL	Synthetic fibres	MR ++ F +++ FoR ++	Laminated and calibrated synthetic fibres intended to be use for the polishing of all materials, in particulary semiconductors and optics. Good results and stands up well to mechanical-chemical abrasives.	
LAM 1723 AL	Synthetic cloth	MR +++ F +++ FoR +	Stock removal without geometric disturbance. Suitable for all abrasives, all grits.	
LAM 1724 AL	Calibrated cloth	MR ++ F +++ FoR +	Ultra-thin calibrated cloth. Suitable for all types of abrasives, all grits. Purpose-made for delicate polishing.	
LAM 1725 AL	Calibrated cloth	MR ++ F ++ FoR ++	Contact surface identical to LAM 1724 AL, but with a rigid complexing that gives greater thickness which improves roughness and sturdiness.	
LAM 1726 AL	Coated fibres	MR ++ F ++ FoR +++	Pad with very soft coating and damped fibres. Suitable for specific nanofinishing. Abrasives under 1 µ or merchanical abrasives.	
LAM 1727 AL	Soft fibres	MR + F + FoR +++	Intended to be used for aspect polishing. Thick and Hardwearing. Particularly suitable for AL <sub>2</sub> O <sub>3</sub> and recyclable abrasives. Maximum waterproofing.	
LAM 1728 AL	Soft fibres	MR ++ F ++ FoR ++	Fibres with specific treatment giving unique properties. Superfinishing of advanced materials. Should preferably be used with nano-slurries.	
LAM 1729 AL	3D cloth	MR +++ F ++ FoR +	Pad intended to be used for stock removal and for finishing large parts. Very good abrasive retention. Creates no heat. Stands up very well to acids and bases.	

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Type	Structure		Characteristics	Sample
<b>LAM 1742 AL</b>	Short flock	MR ++ F ++ FoR +++	Ultra-short, high density and even flock. Intended to be used for finishing mineral and organic glass and for geology. Very soft polishing.	
<b>LAM 1766 AL</b>	Soft fibres	MR ++ F ++ FoR +++	Soft calibrated fibres with no chemical binder. Suitable for the superfinishing of sensitive materials.	
<b>LAM 5550 AL</b>	Non-woven	MR +++ F +++ FoR +	Thick non-woven, rigid, very sturdy. Important stock removal. Particularly suitable for semi-conductors, single crystals, wafers, quartz, sapphires and all materials polished with colloidal silicon.	
<b>LAM Strawberry AL</b>	Specific woven	MR ++ F ++ FoR +++	High-density fibres with predetermined direction. Suitable for mechanical-chemical superfinishing and diamond abrasives with ultra-hard metals. Stands up well to abrasion. Very well adapted to silicon polishing.	

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**AQUA LAM S.A.R.L. - 7, rue des Jardins B.P.15 - 74240 GAILLARD France**

Téléphone 33 (0)4 50 43 96 47 - Fax 33 (0)4 50 43 96 44

e-mail : [aqualam@lamplan.fr](mailto:aqualam@lamplan.fr)



**LAM PLAN S.A. 7, rue des Jardins B.P.15 - 74240 GAILLARD France**

Téléphone 33 (0)4 50 43 96 30 - Fax 33 (0)4 50 87 01 60

[www.lamplan.fr/](http://www.lamplan.fr/) e-mail : [mmsystem@lamplan.fr](mailto:mmsystem@lamplan.fr)

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