




















		Acid Dyes	Fastness						Milling	Penetration
			Light		Washing		Perspiration			
			Light	Dark	Nyl	Lea.	Nyl	Lea.	Nyl	Lea.
		Acid Yellow 17	4-5	4-5	4-5	2-3	3-4	3-4	3-4	4
		Acid Yellow 49	5-6	5	4	4	3	3-4	3	5
		Acid Orange 7	3-4	3	4	3	2-3	2	3	5
		Acid Red 1	4-5	3	4-5	1	3	1	2-3	5
		Acid Red 97	3	2	4-5	4	4-5	3	4	2
		Acid Red 195	4-5	3	4-5	2	4	2	4	2
		Acid Blue 92	5-6	4	4	3	3-4	3	1-2	4
		Acid Blue 113	5	5	4-5	4	4-5	2	3-4	4
		Acid Blue 158	4-5	5-6	4-5	4-5	4	1	4-5	2
		Acid Blue 193	6-7	4	5	3	4-5	2	3-4	5
		Acid Brown 75	4	4	4	2	3	3	4	2

Lea : Leather Nyl : Nylon



Acid Dyes

Light		Dark			Fastness						Milling	Penetration
					Light		Washing		Perspiration			
					Nyl	Lea.	Nyl	Lea.	Nyl	Lea.		
				Acid Brown 160	5	5	4	4	3	3	4	5
				Acid Brown 161	4-5	6	3	4-5	4	1	3	2
				Acid Brown 165	5	5	4	4	3	3	4	5
				Acid Brown 348	4-5	3	4	1	3	2	2-3	1-2
				Acid Beige Mix	5	5	4	4	3	3	4	5
				Acid Black 52	7-8	2-3	4-5	2-3	3-4	1	3-4	3
				Acid Black 172	7	2-3	4-5	2-3	4	1	4	3
				Acid Black 194	7	2-3	4	2-3	4	1	4	3
				Acid Black 210	3-4	2-3	3-4	2	4	3	4	3-4
				Acid Black 234	3-4	5	3-4	2-4	4	3-4	4	5
				Undyed Leather								

Lea : Leather Nyl : Nylon

Dyestuff For Leather, Wool & Nylon

Acid Dyes :

This shade card illustrates the following range of acid dyes for dyeing leather, wool, silk, acrylic, paper & ink

- Acid leveling dyes
- Acid milling dyes
- 1: 1 metal complex dyes /1: 2 metal complex dyes
- Chrome dyes
- Direct dyes

Preparation of Goods :

Wool is well scoured with suitable scouring agent (anionic in nature) camapol - D, paste, before dyeing to remove impurities and thereby, to ensure level dyeing.

Dissolving of Dyestuffs :

It is important first to paste the dyestuffs with diethylene glycol half the proportion of dye and cold water and then hot water is added into it. and if necessary brought to boil dyestuffs so dissolved should be sieved in to dye-bath.

Acid milling dyes possess good aqueous solubility, high tinctorial value and good compatibility for wide range of combination shades.

Metal complex dyes & chrome dyes exhibit excellent all-round fastness properties good compatibility with other dyes, identical tinctorial value and absorption rates, excellent exhaustion of the bath at neutral or slightly acidic pH.

Enter the material (without dye) at 50° c and run for 5 minutes, add the dissolved dye and raise the temperature gradually to the boil over 30 minutes and continue dyeing at the boil for 45 to 60 minutes, rinse.

Acid Milling & Tpm Dyes

X %	Dye
5 %	Glauber's Salt Calc
1-3 %	Acetic Acid (30%) or Ammonium Sulphate or Ammonium Acetate

Enter the material (without dye) at 50°C and run for about 5 minutes. then add the well dissolved dyestuff and dye for 15 minutes. raise the temperature gradually to the boil over 30 minutes and continue dyeing at the boil for 45-60 minutes, for heavy shades, if exhaustion is not completed, add:

2 - 4%	Acetic Acid (30%) or
2 - 4%	Formic Acid (85%) or
1-2%	Sulphuric Acid (168°tw)

and dye for further 15-30 minutes at the boil, rinse.

1:1 Metal Complex Dyes

X %	Dye
5 - 10 %	Glauber's Salt Calc

Enter the material for 10-15 minutes, add 4% sulphuric acid (168°tw) and raise the temperature gradually to the boil, in case of medium or deep shades add a further quantity of 2-4% sulphuric acid (168°tw) to the dye-bath and continue dyeing at the boil. the total time of the boiling period should be at least 90 minutes, rinse well to free all acid and preferably neutralize all traces of acid on the yarn with 2cc/litre ammonia (25%)

Chrome Dyes

X %	Dye
4 %	Chromate Mordant (Prepared By Mixing One Part Sodium or Potassium Chromate And Two Parts Of Ammonium Sulphate)

Enter the material at 50° c and raise the temperature to boil with 45 minutes, and then continue further at the boil for 60-90 minutes, when dyeing medium to heavy shades add for exhaustion:

0.5 - 1.0 %	Acetic Acid (30%) Or
0.25 - 0.5 %	Formic Acid

1:2 Metal Complex Dyes :

The Dyeing Method Is Similar To Acid Milling & TPM Dyes

2-3%	Ammonium Sulphate or Ammonium Acetate
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No extra addition of acetic acid is normally necessary,

Acid Dyes For Leather Application :

Raw Material : Full-chrome Cow hide/Sheep skin ready for dyeing. Percentage (s) are based on crust weight

Wet Back

Water	: 300%
Wetting Agent	: 1%
Ammonia	: 1%- Drum for 2 hrs. pile Over night.

Wash

Water	: 300% - Drum for 10 mts. Drain
Neutralisation	: pH of the leather is adjusted to 5-5,5

Dyeing

Water(60° c)	: 200%
Ammonia	: 1 % - Drum for 10 mts.
Dyestuff	: Required percentage-Drum for 45mts.

Fat Liquoring : 6% - Drum for 45 mts.

Fixing

Water	: 10%
Formic Acid	: 2% - Drum for 45 mts.
	Check exhaustion, drain wash and dry.

Methods recommended herein and subsequent shades are based on the present state of our knowledge and is intended to serve only as a guide to customers in the use of our products, without any obligation on our part.