

**Customer description:** German tannery for high quality upholstery leather. Tannery of the Year awarded.

**Objective:** Improve dyeing quality for brilliant shades in aniline leather. Eliminate ammonia to improve effectiveness of waste water treatment plant.

**Material:** South German heavy bovine hides. White crust 1.4-1.6 mm.

**Process:** ProSpread in the dyeing process replacing dye auxiliary. pH adjusted with sodium bicarbonate.

## Results

- Excellent dye dispersion and penetration
- Superior evenness.
- Colors are bright.



## Conclusion:

Excellent performance of ProSpread as dye auxiliary to achieve intense and evenness dyeing and brilliant colors. Potentially, ProSpread can increase dye yield.