

Chemical Fume Suppressants Approved for Use at Specific
Surface Tensions

Chemical Fume Suppressant and manufacturer	Chrome Plating Applications	Stalagmometer Measured Surface Tension (dynes/centimeter)	Tensiometer Measured Surface Tension (dynes/centimeter)
Benchbrite CR 1800 Benchmark Products ¹	All	< 40	< 35
Clepo Chrome MacDermid ¹	All	< 40	< 35
Fumetrol 140 Atotech, U.S.A. ¹	All	< 40	< 35
HCA – 6.2 Hunter Chemical LLC ¹	All	< 32	< 28
HCA-4 Hunter Chemical LLC ¹	All	< 32	< 28
Fumetrol 21 LF2 Atotech, U.S.A. ²	Hard plating	≤ 30	≤ 27
Dicolloy CRPF ProCom LLC ²	Decorative plating and chromic acid anodizing	≤ 32	≤ 29
HCA - 8.4 Hunter Chemical LLC ²	Decorative plating and chromic acid anodizing	≤ 25	≤ 22
HCA - 8.4 Hunter Chemical LLC ²	Hard plating	≤ 33	≤ 30
Macuplex STR NPFX MacDermid Enthone Industrial Solutions ²	Decorative plating and chromic acid anodizing	≤ 32	≤ 30

1. These products contain PFOS. After September 21, 2016, these products can no longer be added to chrome plating tanks.
2. These products do not contain PFOS and comply with the United States Environmental Protection Agency's National Emission Standards for Hazardous Air Pollutants – Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks (40 C.F.R. Part 63, Subpart N (commencing with 63.340), 77 Fed. Reg. 58219 (September 19, 2012)).

***Table last updated September 21, 2016**