

## Flame Metallurgical, Inc.

### Colors of Hardening Heats

Degrees F.	Degrees C.	Color of Heats
752	400	Red - visible in the dark
885	474	Red - visible in twilight
975	525	Red - visible in daylight
1077	581	Red - visible in sunlight
1292	700	Dull red
1472	800	Turning to cherry
1652	900	Cherry proper
1832	1000	Bright cherry red
2012	1100	Orange red
2192	1200	Orange yellow
2372	1300	White
2552	1400	Brilliant white
2732	1500	Dazzling white
2912	1600	Blush white

### Colors of Tempering Heats

Temperature Held for 1 hour		Color of oxides	Temperature held for 8 minutes	
F.	C.		F.	C.
370	188	Faint yellow	460	238
390	199	Light straw	510	265
410	210	Dark straw	560	293
430	221	Brown	610	321
450	232	Purple	640	337
490	254	Dark blue	660	349
510	265	Light blue	710	376