The specifications of the different types of yellow food color are as follows:

TARTRAZINE		
Classification - C. I. NO 19140/E102/F .D & C YELLOW #5/C.I FOOD YELLOW #4/I.S.1694		
No.	**Characteristic**	**Requirement**
	DESCRIPTION	**LIGHT ORANGE POWDER.**
1)	Total color/Assay, percent by Mass, min.	85.00
2)	Water-insoluble matter, percent by mass, Max.	00.20
3)	Combined ether extracts, percent by mass, Max.	00.20
4)	Subsidiary dyes, percent by mass, Max.	01.00
5)	Dye intermediates, percent by mass, max. • I-P-(Sulfophenyl)-5-pyrazolone-3-carboxylic acid. • Aniline-4-Sulfonilic Acid.	0.5
6)	Unsulfonated primary aromatic amine (calculated as aniline) percent by mass, max.	00.01
7)	Lead, mg/kg, Max.	10.00
8)	Arsenic, mg/kg, Max.	03.00
9)	Heavy metals, (as pb) mg/kg, max	40.00
10)	Mercury, mg/kg, Max.	01.00
11)	Cadmium, mg/kg, Max	01.00

SUNSET YELLOW C.S		
Classification - C.I 15985/C.I. FOOD YELLOW # 3/FD&C YELLOW #6/E - 110/I.S.1695		
No.	**Characteristic**	**Requirement**
	DESCRIPTION	**ORANGE RED POWDER.**
		EC
1)	Total color/Assay, percent by Mass, min.	85.00
2)	Water-insoluble matter, percent by mass, Max.	00.20
3)	Combined ether extracts, percent by mass, Max.	00.20
4)	Subsidiary dyes, percent by mass, Max. Lower sulfonated. Higher sulfonated.	05.00
5)	Dye intermediates, percent by mass, max. • 2-Napthol-6-sulfonic acid • aniline-4-sulphonic acid	00.50
6)	Unsulfonated primary aromatic amine (calculated as aniline) percent by mass, max.	00.01
7)	Lead, mg/kg, Max.	10.00
8)	Arsenic, mg/kg, Max.	03.00
9)	Heavy metals, (as pb) mg/kg, max	40.00
10)	Mercury, mg/kg, Max.	01.00
11)	Cadmium, mg/kg, Max	01.00
12)	Calcium Stability	Passes The Test