



The Shepherd Color Company
We Brighten Lives



Key Features

- High opacity and chromaticity
- Easily dispersed, no grinding required
- Maximum tinting strength
- Clean, bright masstone
- Outstanding weathering performance
- Heat & Chemical resistance
- High/Low pH stable
- 100% Color
- Compatible with solvent, water, 100% solids
- No organic dispersant

Benefits

- High performance lead chromate replacement
 - Opacify organic pigments for Pb-free colors
 - Fully dispersed in minutes
 - Reduce cycle time by >75%
 - Easier to disperse than TiO_2
 - Consistent "locked-in" color
 - Make any batch size economically
 - Eliminates color development
 - Truly universal colorant
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- No organic dispersant included to degrade coating performance

Key Markets

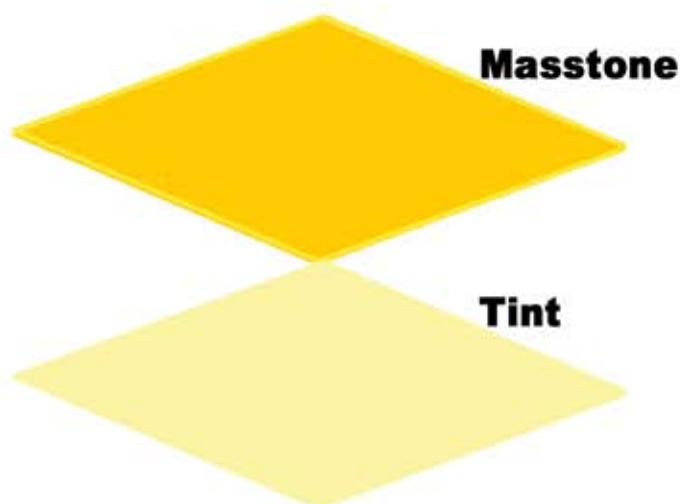
- Building & Construction
 - Metal roofing & cladding, window profiles, curtain wall panels, facades
- Appliances
- Automotive
- General Industrial
- Architectural
- Corporate Colors

Typical Applications

- Coil Coatings & Extrusion
- Powder Coatings
- Waterborne & Solventborne Coatings
- Silicate & Masonry Coatings

NTP Yellow 30C152

CI Pigment Yellow 227



Just stir them in!

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Technical Information

NTP Yellow 30C152

Chemical Composition

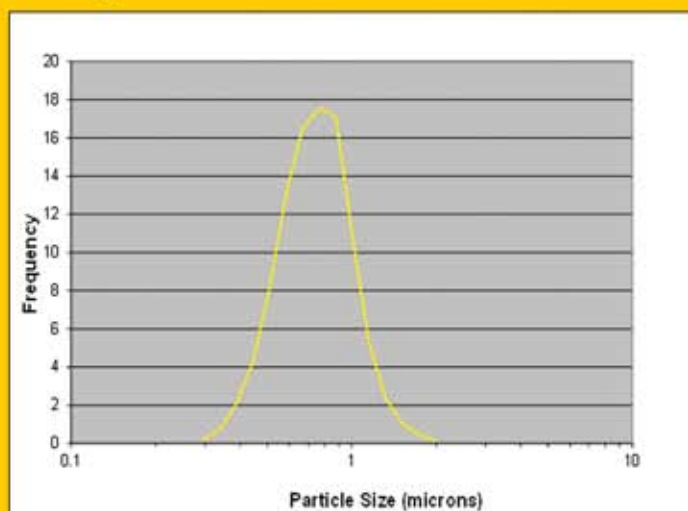
- Niobium Tin Pyrochlore
- CAS # 1374645-21-2
- US Patent 8,192,541 and other patents

Regulatory Compliance

- Toy Safety EN71.3
- Council of Europe AP(89)1
- AS 2070-1999
- Packaging 94/62/EC
- BfR
- CONEG
- ELV 2000/53/EC
- RoHS 2000/95/EC
- WEEE 2002/96/EC
- TCLP

Particle Size Distribution

Mean particle size: 0.7 Microns



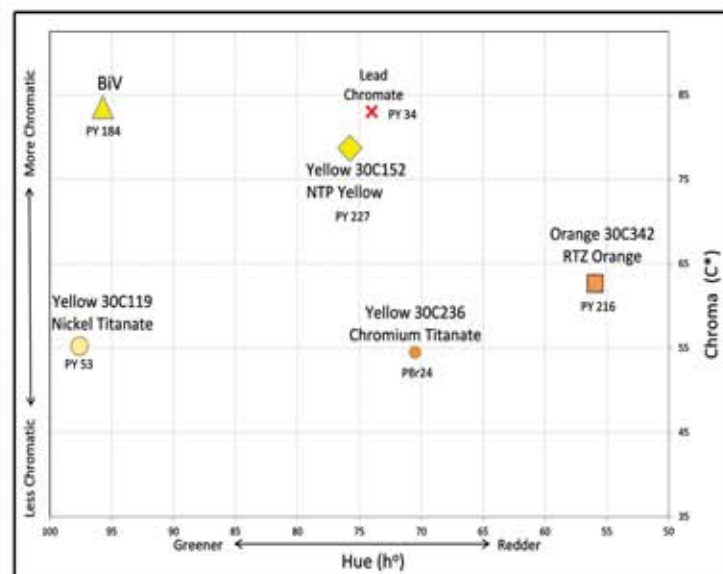
IR Properties



Total Solar Reflectance (TSR) 74%
NTP Yellow 30C152 is part of the Arctic® range for coatings and can be used widely in color matches to maximize TSR.

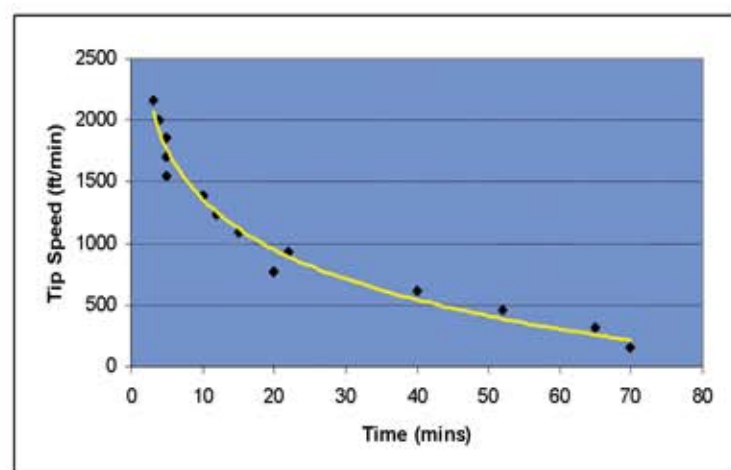


Color Space



Masstone	L*	a*	b*	C*	h°
NTP Yellow 30C152	79.0	18.6	80.3	82.5	77.0
RTZ Orange 30C342	59.9	37.2	58.9	69.6	57.7
4:1 Tint					
NTP Yellow 30C152	88.8	2.5	42.2	42.3	86.7
RTZ Orange 30C342	83.7	13.0	23.8	27.1	61.3

Time to achieve optimum dispersion



Dispersion times to achieve >7.5 Hegman will vary depending on the equipment.

Typical times are:

- Shaker** 5 - 15 minutes
- HSD** 5 - 20 minutes
- Paddle stirrer** 45 - 90 minutes