



SPREDOX D-332

FOR TRANSPARENT IRON OXIDE IN SOLVENT
BASED SYSTEM

DOXA
CHEMISTRY ENVISIONED

Product Intro

Spredox D-332 is designed for iron oxide pigment, it provides good viscosity reduction and stability, especially recommended for those pigments are generally difficult to disperse such as transparent iron oxide

| Specification | |
|---------------|------------------|
| Appearance | Yellowish liquid |
| Solid content | 50% |
| Solvent | BAC |

Testing Formula (acrylic polyol)

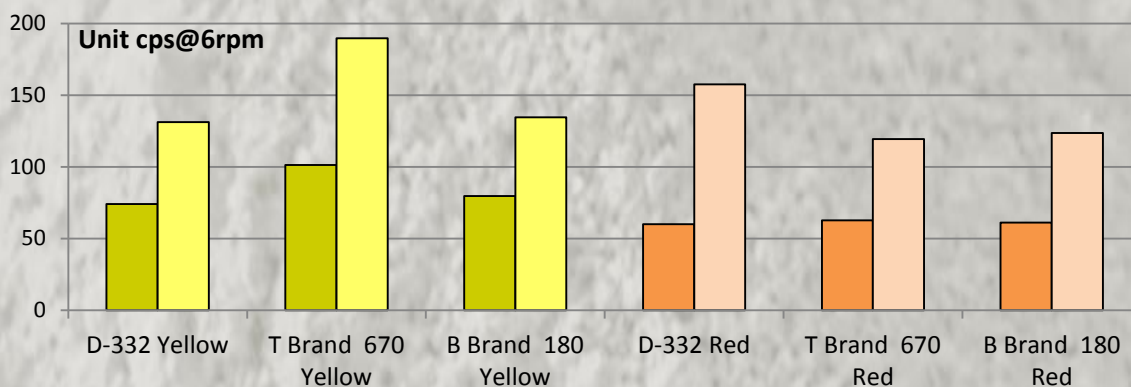
| Millbase | Ratio | 1K coating | Ratio |
|-------------------------------------|-------|----------------------------|-------|
| Transparent iron oxide ¹ | 20.0 | Mill base | 25.0 |
| Dispersant (100% active content) | 10.0 | CAB ³ (20%) | 31.5 |
| Acrylic polyo ² | 25.0 | Acrylic polyo ² | 15.0 |
| XY/BAC/PMA | 45.0 | XY/BAC | 28.5 |
| sum | 100 | sum | 100 |

*1 From BASF

*2 FX-2060A from Elementis

*3 CAB-381-2 from Eastman

Viscosity Reduction (mill base)



Darker bar : before storage

Lighter bar : after storage at 70 °C for 3 days

★D-332 provides the best viscosity reduction

Stability Test

(1K coating, transparent iron oxide pigments)

| Unit cps@2rpm | Before | After | % |
|--------------------------------|--------|---------|-------|
| D-332 transparent yellow | 354.14 | 937.27 | +165% |
| T Brand 670 transparent yellow | 370.82 | 986.32 | +166% |
| B brand 180 transparent yellow | 268.47 | 645.83 | +141% |
| D-332 transparent red | 386.19 | 921.33 | +139% |
| T brand 670 transparent red | 379.65 | 1101.99 | +190% |
| B brand 180 transparent red | 276.97 | 791.34 | +186% |

★D-332 provides the best stability for transparent Red oxide

Storage @ 70° C for 3 days

Chromaticity

(1k coating mix in aluminum paste and applied a PU varnish on the top)

| Transparent yellow iron oxide | | | | | |
|-------------------------------|-------------|--------------------|-------------------|--------------------|-------------------|
| D-332 Before | D-332 After | T brand 760 Before | T brand760 After | B brand 180 Before | B brand 180 After |
| | | | | | |
| Transparent Red iron oxide | | | | | |
| D-332 Before | D-332 After | T brand 760 Before | T brand 760 After | B brand 180 Before | Bbrand 180 After |
| | | | | | |

★D-332 provided the best transparency and could remain better transparency after aging the paste when compared to others