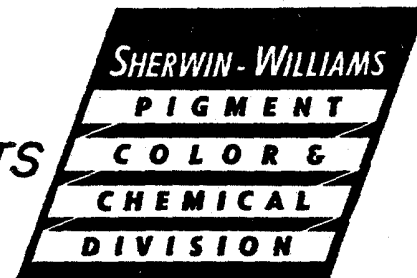


AUXILIARIES DEPARTMENT PRODUCTS



Issued June 1, 1963

PRODUCT	GRADE	SERIAL NUMBER	SPECIFICATIONS		USES
			ASTM	GOVERNMENT	
ZINC OXIDE (ZnO)	OZIDE 10R	40		MIL-Z-291C	Rubber activator; ceramics; abrasives; agricultural zinc deficiencies; lubricant addi- tives; matches; paint pigment; chemical smokes; floor cover- ings.
	OZIDE 10R B8	51			
	OZIDE 11R	50			
	OZIDE 22P	58	D79-44	M124-46 (1)	
	OZIDE 20	41	D79-44	TT-P-463a TT-P-301a	
LEADED ZINC OXIDES (ZnO, PbO, PbSO ₄)	OZLO 12	48	D80-61		Exterior paints.
	OZLO 18M	49	D80-61		
	OZLO 35				
	OZLO 50				
	OZLO 55				
AGRICULTURAL ZINC COMPOUNDS	NUZIDE 78S	43			Spray application - Corrects nutritional zinc deficiencies. Fertilizer (ground application) zinc deficiencies.
	NUZIDE 76F	44			
ZINC SULFATE (ZnSO ₄ ·H ₂ O)	OZARK 360	45			Paint and varnish processing. Alleviate agricultural zinc deficiencies; rayon manufacture; flotation reagent clarification glue; wood preservation; electrogalvanizing.
	OZARK 361-S	46			
BARIUM CARBONATE (BaCO ₃)	OZARK 75C	30		JAN-B-624	Beet sugar refining; flat wall paints; ceramics; linoleum; brick manufacture to prevent efflorescence; glass manu- facture; Ba titanate; Ba ferrites; ammunition.
	OZARK 50F	31		"	
	OZARK 70F	32		"	
	OZARK 90F	33		"	
	OZARK 100 NDF	37		"	
	OZARK 135G	34		"	
	OZARK 145G	36		"	
	OZARK 45T	35		"	
BARIUM MONOHYDRATE (Ba(OH) ₂ ·H ₂ O)	OZARK	47			Oil additives; plastic stabil- izers and inhibitors; printing inks, water softening; beet sugar refining.
LITHOPONE (ZnS + BaSO ₄)	PERMOLITH 20L	53	D477-45	TT-P-400	Latex emulsion paints; leather; linoleum; chalks; crayons; rubber; plastics; patching plaster and crack filler; paper filler.
	PERMOLITH 40M	54	"	"	
	PERMOLITH 60H	52	"	"	
	PERMOLITH W320	55	"	"	
	PERMOLITH W421	57	"	"	
	PERMOLITH 60N	56	"	"	
ARSENIC ACID (H ₃ AsO ₄)	Regular, Clari- fied BD-1124	60			Manufacture of insecticides, pharmaceuticals, dyes, pigments, wood preservatives, cotton
	Special Grade	59			

0007-PMC-0000000485

**SHERWIN-WILLIAMS****PIGMENT****COLOR &****CHEMICAL****DIVISION**

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOISZINC OXIDE
ZnO
OZIDE 10R
Rubber Manufacture

Serial No. 40

Issued January 2, 1963

Miscellaneous PropertiesMethod

Appearance	White powder, grayish cast	50h
Specific Gravity	5.57	50b
Screen Analysis (Residue 325 Mesh)	0.1% Max.	50f

Chemical AnalysisMethod

Zinc Oxide, ZnO, Min.	98.5 %	50A
Lead, Pb, Max.	0.34 %	50K
Copper, Cu, Max.	0.003 %	50C
Manganese, Mn, Max.	0.002 %	50D
Total Copper Plus Manganese	0.004 %	
Cadmium, Cd, Max.	0.005 %	50L
Iron, Fe, Max.	0.040 %	50B
Sulfur, as SO ₃ Max.	0.25 %	50P
Water Soluble Salts, Max.	0.5 %	50Q
10% Acetic Acid Insoluble, Max.	1.0 %	50M



SHERWIN-WILLIAMS
PIGMENT
COLOR &
CHEMICAL
DIVISION

TYPICAL
PROPERTIES
AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

Zinc Oxide
ZnO
OZIDE 10R
For
Rubber Manufacture

Issued January 2, 1963

Miscellaneous Properties

Appearance	White Powder, Grayish Cast
Specific Gravity	5.57
Screen Analysis	
Residue 325 Mesh	0.03%

Chemical Analysis

Zinc Oxide, ZnO	99.1	%
Lead as Pb	0.20	%
Copper, Cu	0.0025	%
Manganese, Mn	0.0008	%
Cadmium, Cd	0.002	%
Iron, Fe	0.025	%
Sulfur as SO ₃	0.10	%
Water Soluble Salts	0.15	%
10% Acetic Acid Insoluble	0.60	%



SHERWIN-WILLIAMS

PIGMENT

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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ZINC OXIDE
ZnO
OXIDE 10R B8
For
Rubber

Serial No. 51

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	white pellets	50h
Specific Gravity	5.57	50b
Apparent Packed Bulk Density	Approx. 110 lbs./cu. ft.	50f

Chemical Analysis

		<u>Method</u>
Zinc Oxide, ZnO, Min.	98.5 %	50A
Lead, Pb, Max.	0.34 %	50K
Copper, Cu, Max.	0.003 %	50C
Manganese, Mn, Max.	0.002 %	50D
Total Copper plus Manganese	0.004 %	
Cadmium, Cd, Max.	0.005 %	50L
Iron, Fe, Max.	0.040 %	50B
Sulfur, S, as SO ₃ , Max.	0.25 %	50P
Water Soluble Salts, Max.	0.50 %	50Q
10% Acetic Acid Insoluble, Max.	1.0 %	50M

0007-PMC-000000488



SHERWIN-WILLIAMS
PIGMENT
COLOR &
CHEMICAL
DIVISION

TYPICAL
PROPERTIES
AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

Zinc Oxide
ZnO
OZIDE 10R B8
Pelletized
For
Rubber Manufacturing

Issued January 2, 1963

Miscellaneous Properties

Appearance
Specific Gravity
Apparent Packed Bulk Density

White pellets, grayish cast
5.57
Approximately 110 lbs./cu. ft.

Chemical Analysis

Zinc Oxide, ZnO
Lead as Pb
Copper, Cu
Manganese, Mn
Cadmium, Cd
Iron, Fe
Sulfur as SO₃
Water Soluble Salts
10% Acetic Acid Insoluble

99.1 %
0.20 %
0.0025%
0.0008%
0.002 %
0.025 %
0.10 %
0.15 %
0.60 %



SHERWIN-WILLIAMS

PIGMENT

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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ZINC OXIDE
ZnO
OZIDE 11R
For
Rubber

Serial No. 50

Issued January 2, 1963

Miscellaneous Properties

Appearance
Specific Gravity
Residue 325 Mesh, Max.

White powder
5.57
0.3%

Method

50h
50b
50f

Chemical Analysis

Zinc Oxide, Min.
Lead as Pb, Max.
Sulfur as SO₃, Max.
Copper as Cu, Max.

98.5 %
0.7 %
0.25 %
0.003 %

Method

50A
50K1
50P
50C



SHERWIN-WILLIAMS
PIGMENT
COLOR &
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DIVISION

TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

Zinc Oxide
ZnO
OZIDE 11R
For
Rubber Manufacture

Issued January 2, 1963

Miscellaneous Properties

Appearance
Specific Gravity
Screen Analysis
Residue 325 Mesh

White Powder, grayish cast
5.57
0.1

Chemical Analysis

Zinc Oxide, ZnO
Lead as Pb
Sulfur as SO₃
Copper as Cu

98.8 %
0.65 %
0.09 %
0.002%



SHERWIN-WILLIAMS
PIGMENT
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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ZINC OXIDE
ZnO
OZIDE 22P
For
Paint Pigment

Serial No. 58

Issued June 1, 1963

Miscellaneous Properties

Method

Appearance	White powder	50h
Bulking Value	2.14 gals./100 lbs.	50b
Screen Analysis (Residue 325 Mesh)	0.3% Max.	50f
Color, Min.	85	50i

Chemical Analysis

Method

Zinc Oxide, ZnO, Min.	98.5%	50A
Lead, Pb, Max.	0.15%	50K



SHERWIN-WILLIAMS
PIGMENT
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TYPICAL
PROPERTIES
AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

Zinc Oxide
ZnO
OZIDE 22P
For
Paint Pigment

Issued June 1, 1963

Miscellaneous Properties

Appearance	White
Bulking Value	2.14 gals./100 lbs.
Screen Analysis (Residue 325 Mesh)	0.1%
Color Compared to Standard	87

Chemical Analysis

Zinc Oxide, ZnO	99.0 %
Lead, Pb	0.09%

Packaging

Bags, 50 lbs. net



SHERWIN-WILLIAMS
PIGMENT
COLOR &
CHEMICAL
DIVISION

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ZINC OXIDE
ZnO
OXIDE 20
For
General Usage

Serial No. 41

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	White powder, grayish cast	50h
Specific Gravity	5.57	50b
Screen Analysis (Residue 325 Mesh)	0.3% Max.	50f
Color, Min.	60	50i

Chemical Analysis

		<u>Method</u>
Zinc Oxide, ZnO, Min.	98.5 %	50A
Lead, Pb, Max.	0.34 %	50K



SHERWIN-WILLIAMS
PIGMENT
COLOR &
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DIVISION

TYPICAL
PROPERTIES
AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

Zinc Oxide
ZnO
OZIDE 20
For
General Use

Issued January 2, 1963

Miscellaneous Properties

Appearance	White powder, grayish cast
Specific Gravity	5.57
Screen Analysis	
Residue 325 Mesh	0.05

Chemical Analysis

Zinc Oxide, ZnO	99.0 %
Lead Pb	0.3 %
Fe	0.025 %
Mn	0.0008%
Cd	0.004 %



SHERWIN-WILLIAMS

PIGMENT

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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

12% CO-FUMED
LEADED ZINC OXIDE
OZLO 12

For
General Application

Serial No. 48

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	White powder	40a
Oil Absorption	10 - 13	40b
Color Compared to Standard, Min.	74	40c
325 Mesh Residue (Tyler) Max.	0.2%	40d
Bulking Value	2.12 gals./100 lbs.	40e

Chemical Analysis

		<u>Method</u>
Zinc Oxide, ZnO, Min.	86.0%	40A
Lead Sulfate, PbSO ₄	9.9 - 14.3%	40B
Zinc Sulfate, Max.	0.3%	40C



SHERWIN-WILLIAMS
PIGMENT
COLOR &
CHEMICAL
DIVISION

TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

12% CO-FUMED
LEADED ZINC OXIDE
OZLO 12
For
General Application

Issued January 2, 1963

Miscellaneous Properties

Appearance	White powder
Oil Absorption	12
Color Compared to Standard	80
Screen Analysis Residue 325 Tyler	0.1 %
Bulking Value	2.12 gals./100 lbs.

Chemical Analysis

Zinc Oxide, ZnO	87.0 %
Lead Sulfate, PbSO_4	12.0 %
Zinc Sulfate, ZnSO_4	0.25%



SHERWIN-WILLIAMS
PIGMENT
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DIVISION

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

CO-FUMED
LEADED ZINC OXIDE
OZLO 18M
For
General Application

Serial No. 49

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	White powder	40a
Oil Absorption	10 - 12	40b
Color Compared to Standard, Min.	75	40c
325 Mesh Residue (Tyler) Max.	0.2%	40d
Bulking Value	2.10 gals./100 lbs.	40e

Chemical Analysis

		<u>Method</u>
Zinc Oxide	80.0 - 82.0 %	40A
Monobasic Lead Sulfate	16.5 - 19.5 %	40B
Available Lead as PbO	6.0 - 8.0 %	40C



SHERWIN-WILLIAMS

PIGMENT

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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

CO-FUMED
LEADED ZINC OXIDE
OZLO 18M
For
General Application

Issued January 2, 1963

Miscellaneous Properties

Appearance	White powder
Oil Absorption	10.5
Color Compared to Standard	78
Bulking Value	2.10 gal./100 lbs.
Screen Analysis Residue 325 Mesh, Tyler	0.1%

Chemical Analysis

Zinc Oxide	81.0%
Monobasic Lead Sulfate	18.0%
Available Lead as PbO	7.0%



SHERWIN-WILLIAMS
PIGMENT
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TYPICAL
PROPERTIES
AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

.35%
LEADED ZINC OXIDE
OZLO 35
For
GENERAL APPLICATION

Issued June 1, 1963

Miscellaneous Properties

Appearance	White Powder
Oil Absorption	12.5
Color Compared to Standard	85
Screen Analysis Residue 325 Tyler	0.1%
Bulking Value	2.06 gals./100 lbs.

Chemical Analysis

Zinc Oxide	65.0 %
Basic Sulfate White Lead	35.0 %

Packaging

Bags, 50 lbs. net

0007-PMC-000000500



SHERWIN-WILLIAMS
PIGMENT
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DIVISION

TYPICAL
PROPERTIES
AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

50%
LEADED ZINC OXIDE
OZLO 50
For
GENERAL APPLICATION

Issued June 1, 1963

Miscellaneous Properties

Appearance	White Powder
Oil Absorption	12.5
Color Compared to Standard	85
Screen Analysis Residue 325 Mesh Tyler	0.1%
Bulking Value	2.02 gals./100 lbs.

Chemical Analysis

Zinc Oxide	50.0%
Basic Sulfate White Lead	50.0%

Packaging

Bags, 50 lbs. net

0007-PMC-000000501



SHERWIN - WILLIAMS
PIGMENT
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DIVISION

TYPICAL
PROPERTIES
AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

55%
LEADED ZINC OXIDE
OZLO 55
For
GENERAL APPLICATION

Issued June 1, 1963

Miscellaneous Properties

Appearance	White Powder
Oil Absorption	12.5
Color Compared to Standard	85
Screen Analysis Residue 325 Tyler	0.1%
Bulking Value	2.00 gals./100 lbs.

Chemical Analysis

Zinc Oxide	45.0%
Basic Sulfate White Lead	55.0%

Packaging

Bags, 50 lbs. net

0007-PMC-000000502



SHERWIN-WILLIAMS

PIGMENT

COLOR &

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DIVISION

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

Zinc Oxide
ZnO
NUZIDE 78S
for
Agricultural Sprays

Serial No. 43

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density

White powder, grayish cast
Approx. 70 lbs./cu. ft.

Method

50h
50j

Chemical Analysis

Zinc Oxide, ZnO, Min.
Arsenic, As, Max.

98.0 %
.05%

50A
50F



SHERWIN-WILLIAMS

**PIGMENT
COLOR &
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TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

Zinc Oxide
ZnO
NUZIDE 78S
For
Agricultural Sprays

Issued January 2, 1963

Miscellaneous Properties

Appearance

White powder, grayish cast

Apparent Packed Bulk Density

Approximately 70 lbs/cu ft

Chemical Analysis

Zinc Oxide, ZnO

98.8 %

Arsenic, As

0.03%



SHERWIN-WILLIAMS

PIGMENT

COLOR &

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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

Zinc Oxide
ZnO
-NUZIDE 76F
For
Agriculture

Serial No. 44

Issued January 2, 1963

Miscellaneous Properties

Appearance

Brown powder

Method

Apparent Packed Bulk Density

Approx. 160 lbs./cu.ft.

50h

50j

Chemical Analysis

Zinc Oxide, ZnO, Min.

94.5%

50A

Zn Min.

76.0%

50A



SHERWIN-WILLIAMS
PIGMENT
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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
ZINC SULFATE
 $\text{ZnSO}_4 \cdot \text{H}_2\text{O}$
Grade 360
For
General Application

Serial No. 45

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density

White Crystalline Powder
Approx. 90 lbs/cu ft

Method

60i
60j

Chemical Analysis

Zinc as Zn, Min.
Lead as Pb, Max.
Copper as Cu, Max.
Manganese as Mn, Max.
Cadmium as Cd, Max.
Iron as Fe, Max.
Nickel as Ni, Max.
Acid Insoluble, Max.

36.0 %
0.004%
0.001%
0.002%
0.003%
0.002%
0.001%
0.1 %

Method

60A
60B
60C
60D
60E
60F
60N
60Q



SHERWIN-WILLIAMS
PIGMENT
COLOR &
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DIVISION

TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
ZINC SULFATE
 $\text{ZnSO}_4 \cdot \text{H}_2\text{O}$
Grade 360
For
General Application

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density

White
Approximately 90 lbs./cu. ft.

Chemical Analysis

Zinc as Zn	36.0 %
Lead as Pb	0.002 %
Copper as Cu	0.0005%
Manganese as Mn	0.001 %
Cadmium as Cd	0.001 %
Iron as Fe	0.001 %
Nickel as Ni	0.0005%
Acid Insoluble	0.08 %
Calcium as Ca	0.02 %
Sodium as Na	Trace %
Magnesium as Mg	0.003 %
Aluminum as Al	0.005 %
Arsenic as As	0.00004%
Antimony as Sb	0.0001 %
Tin as Sn	Trace, if any
Bismuth as Bi	Trace, if any
Chlorine as Cl	0.015 %
Silica as SiO_2	0.015 %
Chromium as Cr	Trace, if any
Iridium as Ir	Trace, if any

0007-PMC-000000507



SHERWIN-WILLIAMS
PIGMENT
COLOR &
CHEMICAL
DIVISION

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
ZINC SULFATE
 $\text{ZnSO}_4 \cdot \text{H}_2\text{O}$
Grade 361-S
For
General Application

Serial No. 46

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density

White Crystalline Powder
Approx. 65 lbs/cu ft

Method

60i
60j

Chemical Analysis

Zinc as Zn, Min.
Lead as Pb, Max.
Copper as Cu, Max.
Manganese as Mn, Max.
Cadmium as Cd, Max.
Iron as Fe, Max.
Nickel as Ni, Max.

36.0 %
0.004%
0.001%
0.002%
0.003%
0.002%
0.001%

Method

60A
60B
60C
60D
60E
60F
60N



SHERWIN-WILLIAMS
PIGMENT
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TYPICAL
PROPERTIES
AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
ZINC SULFATE
 $\text{ZnSO}_4 \cdot \text{H}_2\text{O}$
Grade 361-S
For
General Application

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density

White Powder
Approximately 65 lbs./cu. ft.

Chemical Analysis

Zinc as Zn	36.3 %
Lead as Pb	0.002 %
Copper as Cu	0.0005%
Manganese as Mn	0.001 %
Cadmium as Cd	0.001 %
Iron as Fe	0.001 %
Nickel as Ni	0.0005%
Calcium as Ca	0.02 %
Chlorine as Cl	0.015 %

0007-PMC-000000509



SHERWIN-WILLIAMS

PIGMENT

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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE

BaCO₃

Grade 75C

For

General Application

Serial No. 30

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density
Specific Gravity

White
Approx. 70 lbs./cu. ft.
4.29

Method

20a
20c
20g

Chemical Analysis

Total Ba + Sr as BaCO₃, Min.
Total Sulfur as S, Max.
Sulfate Sulfur as S, Max.
Sulfide-Sulfite Sulfur as S, Max.
Iron as Fe, Max.

99.0 %
0.10 %
0.07 %
0.06 %
0.0014%

Method

20A
20B
20C
20D
20E

0007-PMC-000000510



SHERWIN-WILLIAMS
PIGMENT
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DIVISION

TYPICAL
PROPERTIES
AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 75C
For
General Application

Issued January 2, 1963

Miscellaneous Properties

Appearance	White
Apparent Packed Bulk Density	Approx. 70 lbs./cu. ft.
Screen Analysis (through 150 mesh Tyler)	99%

Chemical Analysis

Total Ba + Sr as BaCO_3	99.3	%
Total Sulfur as S	0.06	%
Sulfate Sulfur as S	0.04	%
Sulfide-Sulfite Sulfur as S	0.03	%
Fe	0.0008	%
SrCO_3	0.90	%
CaCO_3	0.16	%
Na_2O	trace	
Al_2O_3	0.09	%
Cl	0.008	%
Acid Insoluble ($\text{BaSO}_4 + \text{SiO}_2$)	0.30	%

0007-PMC-000000511



SHERWIN-WILLIAMS

PIGMENT

COLOR &

CHEMICAL

DIVISION

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 50F
For
Ceramics

Serial No. 31

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	White	20a
Apparent Packed Bulk Density	Approx. 50 lbs./cu. ft.	20d
Screen Analysis (through 150 mesh Tyler) Min.	99%	20e
Specific Gravity	4.29	20g

Chemical Analysis

		<u>Method</u>
Total Ba + Sr as BaCO_3 , Min.	98.5%	20A



SHERWIN-WILLIAMS
PIGMENT
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CHEMICAL
DIVISION

TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 50F
For
General Application

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density
Screen Analysis
Through 150 mesh Tyler

White
Approximately 50 lbs/cu ft
99%

Chemical Analysis

Total Ba + Sr as BaCO_3
Total Sulfur as S,
 Fe_2O_3

99.1 %
0.07 %
0.002%



SHERWIN-WILLIAMS

PIGMENT

COLOR &

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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 70F
For
Ceramics

Serial No. 32

Issued January 2, 1963

Miscellaneous Properties

Method

Appearance	White	20a
Apparent Packed Bulk Density	Approx. 70 lbs./cu. ft.	20d
Screen Analysis (through 150 mesh Tyler) Min.	99%	20e
Specific Gravity	4.29	20g

Chemical Analysis

Method

Total Ba + Sr as BaCO_3 , Min.	98.5%	20A
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0007-PMC-000000514



SHERWIN-WILLIAMS
PIGMENT
COLOR &
CHEMICAL
DIVISION

TYPICAL
PROPERTIES
AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 70F
For
Ceramics

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density
Screen Analysis Through 150 Mesh,
Tyler

White
Approx. 70 lbs./cu. ft.
99%

Chemical Analysis

Total Ba + Sr as BaCO_3
Total Sulfur as S
 Fe_2O_3

99.1 %
0.07 %
0.002%



SHERWIN-WILLIAMS

PIGMENT

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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 90F
For
Ceramics

Serial No. 33

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density
Screen Analysis (through 150 mesh
Tyler) Min.
Specific Gravity

White
Approx. 90 lbs./cu. ft.
99%
4.29

Method

20a
20d
20e
20g

Chemical Analysis

Total Ba + Sr as BaCO_3 , Min.

98.5%

Method

20A



SHERWIN-WILLIAMS
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TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 90F
For
Ceramics

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density
Screen Analysis
Through 150 Mesh, Tyler

White
Approx. 90 lbs/cu ft
99%

Chemical Analysis

Total Ba + Sr as BaCO_3
Total Sulfur as S
 Fe_2O_3

99.1 %
0.07 %
0.002 %



SHERWIN-WILLIAMS

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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 100 NDF
For
General Use

Serial No. 37

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	White	20a
Apparent Packed Bulk Density	Approx. 100 lbs./cu. ft.	20c
Screen Analysis (through 150 mesh Tyler) Min.	99%	20d
Flowability (dry flow)	Very good	20e
Specific Gravity	4.29	20f

Chemical Analysis

		<u>Method</u>
Total Ba + Sr as BaCO_3 , Min.	99.0 %	20A
Total Sulfur as S, Max.	0.10 %	20B
Sulfate Sulfur as S, Max.	0.07 %	20C
Sulfide-Sulfite Sulfur as S, Max.	0.06 %	20D
Iron as Fe, Max.	0.0014%	20E

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SHERWIN-WILLIAMS
PIGMENT
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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 100 NDF
For
General Use

Issued January 2, 1963

Miscellaneous Properties

Appearance

Apparent Packed Bulk Density
Screen Analysis (through 150 mesh
Tyler)

White

Approximately 100 lbs./cu. ft.

99%

Chemical Analysis

Total Ba + Sr as BaCO_3	99.3	%
Total Sulfur as S	0.06	%
Sulfate Sulfur as S	0.05	%
Sulfide-Sulfite Sulfur as S	0.01	%
Fe	0.0008	%
SrCO_3	0.90	%
CaCO_3	0.16	%
Na_2O	trace	
Al_2O_3	0.09	%
Cl	0.008	%
Acid Insoluble ($\text{BaSO}_4 + \text{SiO}_2$)	0.40	%

**SHERWIN-WILLIAMS****PIGMENT****COLOR &****CHEMICAL****DIVISION**

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOISOZARK
BARIUM CARBONATE
 BaCO_3
Grade 135G
For
Glass Manufacture

Serial No. 34

Issued January 2, 1963

Miscellaneous PropertiesMethodAppearance
Apparent Packed Bulk Density
Screen Analysis (through 150 mesh
Tyler) Max.
Specific GravityWhite
Approx. 135 lbs./cu. ft.

25%
4.2920a
20d

20e
20gChemical AnalysisMethodTotal Ba + Sr as BaCO_3 , Min.
Total Sulfur as S, Max.
Sulfate Sulfur as S, Max.
Sulfide-Sulfite Sulfur as S, Max.
Fe, Max.
Acid Insoluble, Max.98.5 %
0.10 %
0.10 %
0.01 %
0.0014%
0.70 %20A
20B
20C
20D
20E
20L



SHERWIN-WILLIAMS
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TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 135G
For
Glass Manufacture

Issued January 2, 1963

Miscellaneous Properties

Appearance

Apparent Packed Bulk Density

Screen Analysis Cumulative, Tyler

on 16
20
30
50
100
150
thru 150

White

Approx. 135 lbs./cu. ft.

0 %
2 %
25 %
50 %
70 %
80 %
20 %

Chemical Analysis

Total Ba + Sr as BaCO_3

Total Sulfur as S

Sulfate Sulfur as S

Sulfide-Sulfite Sulfur as S

Fe

SrCO_3

CaCO_3

Na_2O

Al_2O_3

Cl

Acid Insoluble

98.8 %
0.07 %
0.07 %
0.002 %
0.0008 %
0.90 %
0.16 %
trace
0.09 %
0.008 %
0.50 %

0007-PMC-000000521

**SHERWIN-WILLIAMS****PIGMENT****COLOR &****CHEMICAL****DIVISION**

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOISOZARK
BARIUM CARBONATE
 BaCO_3
Grade 145G
For
Glass Manufacture

Serial No. 36

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	White	20a
Apparent Packed Bulk Density	Approx. 145 lbs./cu. ft.	20d
Screen Analysis (through 150 mesh Tyler) Max.	25%	20e
Specific Gravity	4.29	20g

Chemical Analysis

		<u>Method</u>
Total Ba + Sr as BaCO_3 , Min.	98.5 %	20A
Total Sulfur as S, Max.	0.10 %	20B
Sulfate Sulfur as S, Max.	0.10 %	20C
Sulfide-Sulfite Sulfur as S, Max.	0.01 %	20D
Fe, Max.	0.0014 %	20E
Acid Insoluble, Max.	0.70 %	20L



SHERWIN-WILLIAMS
PIGMENT
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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 145G
For
Glass Manufacture

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density
Screen Analysis, Cumulative, Tyler

on 14
20
28
48
100
150
thru 150

White
Approx. 145 lbs./cu. ft.

6 %
10 %
35 %
59 %
75 %
81 %
19 %

Chemical Analysis

Total Ba + Sr as BaCO_3
Total Sulfur as S
Sulfate Sulfur as S
Sulfide-Sulfite Sulfur as S
Fe
 SrCO_3
 CaCO_3
 Na_2O
 Al_2O_3
Cl
Acid Insoluble

98.8 %
0.07 %
0.07 %
0.002 %
0.0008 %
0.90 %
0.16 %
trace
0.09 %
0.008 %
0.50 %

0007-PMC-000000523



SHERWIN-WILLIAMS
PIGMENT
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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 45T
Special Fine Grade for
General Use

Serial No. 35

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	White	20a
Particle Size	Fisher No. 1.60, Max.	20c
Apparent Packed Bulk Density	Approx. 55 lbs./cu. ft.	20d
Specific Gravity	4.29	20g

Chemical Analysis

		<u>Method</u>
BaCO_3 , Min.	99.2 %	20A
Total Sulfur as S, Max.	0.10 %	20B
Sulfate Sulfur as S, Max.	0.070%	20C
Sulfide-Sulfite Sulfur as S, Max.	0.050%	20D
Iron as Fe, Max.	0.001%	20E



SHERWIN-WILLIAMS
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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM CARBONATE
 BaCO_3
Grade 45T
Special Fine Grade
For General Use

Issued January 2, 1963

Miscellaneous Properties

Appearance
Particle Size
Apparent Bulk Density

White
Fisher No. 1.15 - 1.60
Approx. 55 lbs./cu. ft.

Chemical Analysis

BaCO_3
Total Sulfur as S
Sulfate Sulfur as S
Sulfide-Sulfite Sulfur as S
Iron as Fe

99.5 %
0.086 %
0.064 %
0.027 %
0.0008 %



SHERWIN-WILLIAMS
PIGMENT
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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM MONOHYDRATE
 $\text{Ba}(\text{OH})_2 \cdot \text{H}_2\text{O}$
For
General Application

Serial No. 47

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density

White Dry Flakes
Approx. 80 lbs./cu. ft.

Method

10a
10b

Chemical Analysis

Ba as BaO, Range
BaSO₄, Max.
BaCO₃, Max.
Cl, Max.
as BaCl₂ Max.
S, Max.
as BaS Max.
Fe, Max.

78.5 - 80.5%
0.12 %
0.9 %
0.02 %

0.01 %
0.003%

0.06%
0.05%

Method

10A
10B
10C
10D
10E
10F

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SHERWIN-WILLIAMS
PIGMENT
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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

OZARK
BARIUM MONOHYDRATE
 $\text{Ba}(\text{OH})_2 \cdot \text{H}_2\text{O}$
For
General Application

Issued January 2, 1963

Miscellaneous Properties

Appearance
Apparent Packed Bulk Density

White Dry Flakes
Approximately 80 lbs./cu. ft.

Chemical Analysis

Total Barium (weak acid soluble)	71.7	%
as BaO	80.0	%
$\text{Ba}(\text{OH})_2 \cdot \text{H}_2\text{O}$	98.2	%
as BaO	79.5	%
BaSO_4	0.08	%
BaCO_3	0.7	%
Cl	0.005	%
S as Sulfide	0.0017	%
as BaS	0.009	%
Fe	0.002	%



SHERWIN-WILLIAMS
PIGMENT
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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade 20L
For
General Accounts

Serial No. 53

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	White powder	30a
Total Residue, 325 Mesh, Max.	0.15%	30b
Oil Absorption, Min.	12	30c
Water Soluble Matter, Max.	0.2 %	30d
Moisture and other Volatile Matter, Max.	0.1 %	30e

Chemical Analysis

		<u>Method</u>
Zinc Sulfide, ZnS, Min.	28.0 %	30A
Zinc Oxide, ZnO, Max.	0.4 %	30B
Barium Sulfate, Min.	95.0 % of Remainder	30C

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SHERWIN-WILLIAMS
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TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade 2QL
Low Oil Absorption

Issued January 2, 1963

Miscellaneous Properties

Appearance	White
Total Residue, 325 Mesh	0.10%
Oil Absorption	13
Water Soluble Matter	0.10%
Bulking Value	2.79 gals./100 lbs.
Moisture and other Volatile Matter	0.09%

Chemical Analysis

Zinc Sulfide, ZnS	28.5 %
Zinc Oxide, ZnO	0.2 %
Barium Sulfate, Min.	95.0 % of Remainder

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SHERWIN-WILLIAMS
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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade 40M
For
General Accounts

Serial No. 54

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	Fine white powder	30a
Total Residue, 325 Mesh, Max.	0.15%	30b
Oil Absorption, Min.	14	30c
Water Soluble Matter, Max.	0.2 %	30d
Moisture and other Volatile Matter, Max.	0.1 %	30e

Chemical Analysis

		<u>Method</u>
Zinc Sulfide, ZnS, Min.	28.0 %	30A
Zinc Oxide, ZnO, Max.	0.4 %	30B
Barium Sulfate, Min.	95.0 % of Remainder	30C

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SHERWIN-WILLIAMS
PIGMENT
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TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade 4OM
Medium Oil Absorption

Issued January 2, 1963

Miscellaneous Properties

Appearance	White
Total Residue, 325 Mesh	0.10%
Oil Absorption	15
Water Soluble Matter	0.10%
Bulking Value	2.79 gals./100 lbs.
Moisture and other Volatile Matter	0.09%

Chemical Analysis

Zinc Sulfide, ZnS_2	28.5 %
Zinc Oxide, ZnO	0.2 %
Barium Sulfate, Min.	95.0 % of Remainder



SHERWIN-WILLIAMS
PIGMENT
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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade 60H
For
General Accounts

Serial No. 52

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	White powder	30a
Total Residue, 325 Mesh, Max.	0.15%	30b
Oil Absorption, Min.	15	30c
Water Soluble Matter, Max.	0.2 %	30d
Moisture and other Volatile Matter, Max.	0.1 %	

Chemical Analysis

		<u>Method</u>
Zinc Sulfide, ZnS, Min.	28.0 %	30A
Zinc Oxide, ZnO, Max.	0.4 %	30B
Barium Sulfate, Min.	95.0 % of Remainder	30C

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SHERWIN-WILLIAMS
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PROPERTIES
AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade 60H
High Oil Absorption

Issued January 2, 1963

Miscellaneous Properties

Appearance	White powder
Total Residue, 325 Mesh	0.10%
Oil Absorption	16.
Water Soluble Matter	0.10%
Bulking Value	2.79 gals./100 lbs.
Moisture and other Volatile Matter	0.09%

Chemical Analysis

Zinc Sulfide, ZnS	28.5 %
Zinc Oxide, ZnO	0.2 %
Barium Sulfate, Min.	95.0 % of Remainder



SHERWIN-WILLIAMS
PIGMENT
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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade W-320
Water Wetting

Serial No. 55

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	White powder	30a
Total Residue, 325 Mesh, Max.	0.15%	30b
Oil Absorption, Min.	16	30c
Water Soluble Matter, Max	0.2 %	30d
Moisture and other Volatile Matter, Max.	0.1 %	30e

Chemical Analysis

		<u>Method</u>
Zinc Sulfide, ZnS, Min.	28.0 %	30A
Zinc Oxide, ZnO, Max.	0.4 %	30B
Barium Sulfate, Min.	95.0 % of Remainder	30C



SHERWIN-WILLIAMS
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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade W-320
Water Wetting

Issued January 2, 1963

Miscellaneous Properties

Appearance	White
Total Residue, 325 Mesh	0.10%
Water Soluble Matter	0.18%
Bulking Value	2.79 gals./100 lbs.
Moisture and other Volatile Matter	0.09%
Oil Absorption	16,

Chemical Analysis

Zinc Sulfide, ZnS	28.5 %
Zinc Oxide, ZnO	0.2 %
Barium Sulfate, Min.	95.0 % of Remainder



SHERWIN-WILLIAMS
PIGMENT
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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade W-421
Water Dispersible

Serial No. 57

Issued January 2, 1963

Miscellaneous Properties

		<u>Method</u>
Appearance	White powder	30a
Total Residue, 325 Mesh, Max.	0.15%	30b
Oil Absorption	15	30c
Moisture and other Volatile Matter, Max.	0.1 %	30e

Chemical Analysis

		<u>Method</u>
Zinc Sulfide, ZnS, Min.	28.0 %	30A
Zinc Oxide, ZnO, Max.	0.4 %	30B
Barium Sulfate, Min.	95.0 %	30C

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SHERWIN-WILLIAMS
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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade W-421
Water Dispersible

Issued January 2, 1963

Miscellaneous Properties

Appearance	White
Total Residue, 325 Mesh, Max.	0.10%
Bulking Value	2.79 gals./100 lbs.
Moisture and other Volatile Matter	0.09%

Chemical Analysis

Zinc Sulfide, ZnS	28.5 %
Zinc Oxide, ZnO	0.2 %
Barium Sulfate, Min.	95.0 % of Remainder

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SHERWIN-WILLIAMS

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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade 60N
Non-Reactive

Serial No. 56

Issued January 2, 1963

Miscellaneous Properties

Method

Appearance	White powder	30a
Total Residue, 325 Mesh, Max.	0.15%	30b
Oil Absorption, Min.	12%	30c
Water Soluble Matter, Max.	0.2 %	30d
Moisture and other Volatile Matter, Max.	0.1 %	30e

Chemical Analysis

Method

Zinc Sulfide, ZnS, Min.	28.0 %	30A
Zinc Oxide, ZnO, Max.	0.10%	30B
Barium Sulfate, Min.	95.0 % of Remainder	30C

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SHERWIN-WILLIAMS
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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

PERMOLITH
LITHOPONE
Grade 60N
Non-Reactive

Issued January 2, 1963

Miscellaneous Properties

Appearance	White
Total Residue, 325 Mesh	0.10%
Oil Absorption	12
Water Soluble Matter	0.10%
Bulking Value	2.79 gals./100 lbs.
Moisture and other Volatile Matter	0.09%

Chemical Analysis

Zinc Sulfide, ZnS	28.5 %
Zinc Oxide, ZnO	0.06%
Barium Sulfate, Min.	95.0 % of Remainder



SHERWIN-WILLIAMS

PIGMENT

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SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID

H_3AsO_4

BD-1124

Regular Clarified Grade

Serial No. 60

Issued June 1, 1963

Miscellaneous Properties

Appearance

Liquid water white to
light green or yellow

Method

70a

Specific Gravity

1.9-2.0

70b

Pounds per Gallon

15.85-16.70

70c

Chemical Analysis

Arsenic Acid, H_3AsO_4

74.86-79.16%

70A

Arsenic Acid calc. to As_2O_5

60.6-64.1 %

70A

Arsenous Oxide, As_2O_3 , Max.

0.75%

70B

Nitric Acid, HNO_3

None

70C



SHERWIN-WILLIAMS
PIGMENT
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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID
 H_3AsO_4
BD-1127
Regular Clarified Grade

Miscellaneous Properties

Appearance

Liquid water white to light green
or yellow

Specific Gravity
Pounds per Gallon

1.95
16.273

Chemical Analysis

Arsenic Acid, H_3AsO_4
Calc. to As_2O_5

77.0 %
62.35 %

Arsenous Oxide, As_2O_3

0.50 %

Nitric Acid, HNO_3

None

Copper as Cu

0.0135%

Lead as Pb

0.0145%

Iron as Fe

0.0175%

Aluminum as Al

0.0030%

Antimony as Sb

0.3700%

**SHERWIN-WILLIAMS****PIGMENT****COLOR &****CHEMICAL****DIVISION**

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID

 H_3AsO_4

BD-1083

Special Grade

Serial No. 59

Issued June 1, 1963

Miscellaneous PropertiesMethod

Appearance

Liquid water white to
very slight green

70a

Specific Gravity

1.95-2.05

70b

Pounds per Gallon

16.27-17.10

70c

Chemical AnalysisArsenic Acid, H_3AsO_4

77.00-81.20%

70A

Calc. to As_2O_5

62.4 -65.8 %

70A

Arsenous Oxide, As_2O_3 , Max.

0.35 %

70B

Nitric Acid, HNO_3

None

70C

Copper as Cu, Max.

0.001%

70D

Lead as Pb, Max.

0.010%

70E

Iron as Fe, Max.

0.010%

70F

Aluminum as Al, Max.

0.001%

70G

Antimony as Sb, Max.

0.100%

70H



SHERWIN-WILLIAMS
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AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID
 H_3AsO_4
ED-1083
Special Grade

Miscellaneous Properties

Appearance	Water white to very slight green
Specific Gravity	2.00
Pounds per Gallon	16.69

Chemical Analysis

Arsenic Acid, H_3AsO_4	79.16 %
Arsenic Acid Calc. to As_2O_5	64.10 %
Arsenous Oxide As_2O_3	0.25 %
Nitric Acid, HNO_3	None
Copper as Cu	0.0009%
Lead as Pb	0.0039%
Iron as Fe	0.0023%
Aluminum, as Al	0.0007%
Antimony as Sb	0.0900%