



JIANGSU SANMU GROUP CO., LTD

GUANLIN TOWN, YIXING CITY, JIANGSU PROVINCE, 214258, CHINA

CERTIFICATE OF ANALYSIS

DIPROPYLENE GLYCOL (DPG)

LOT NO.: SAMPLE

ISSUED BY MANUFACTURER: JIANGSU SANMU GROUP CO.,LTD

ITEM	STANDARD POINT	RESULT
Appearance	Transparent clear liquid	Transparent clear liquid
Color (APHA)	≤ 10	10
Acid Number (mgKOH/g)	≤ 0.15	0.047
PG content %	≤ 3	0.66
TPG content %	≤ 2	1.7
DPG content %	≥ 96	97.35
Water content %	≤ 0.1	0.097

JIANGSU SANMU GROUP CO.,LTD.

May 4, 2012



JIANGSU SANMU GROUP CO., LTD

GUANLIN TOWN, YIXING CITY, JIANGSU PROVINCE, 214258, CHINA

CERTIFICATE OF ANALYSIS

DIPROPYLENE GLYCOL (DPG)

LOT NO.: 201203009

PRODUCE DATE : March 30, 2012

ISSUED BY MANUFACTURER: JIANGSU SANMU GROUP CO.,LTD

ITEM	STANDARD POINT	RESULT
Appearance	Transparent clear liquid	Transparent clear liquid
Color (APHA)	≤ 10	10
Acid Number (mgKOH/g)	≤ 0.15	0.0526
PG content %	$\leq 3\%$	0.68
TPG content %	$\leq 2\%$	1.91
DPG content %	$\geq 96\%$	97.02
Water content %	$\leq 0.1\%$	0.095

JIANGSU SANMU GROUP CO.,LTD.

Oct. 9th 2012



JIANGSU SANMU GROUP CO., LTD

GUANLIN TOWN, YIXING CITY, JIANGSU PROVINCE, 214258, CHINA

CERTIFICATE OF ANALYSIS

DIPROPYLENE GLYCOL (DPG)

LOT NO.: 201204005

PRODUCE DATE : April 18, 2012

ISSUED BY MANUFACTURER: JIANGSU SANMU GROUP CO.,LTD

ITEM	STANDARD POINT	RESULT
Appearance	Transparent clear liquid	Transparent clear liquid
Color (APHA)	≤ 10	10
Acid Number (mgKOH/g)	≤ 0.15	0.045
PG content %	$\leq 3\%$	0.69
TPG content %	$\leq 2\%$	1.69
DPG content %	$\geq 96\%$	97.12
Water content %	$\leq 0.1\%$	0.091

JIANGSU SANMU GROUP CO.,LTD.

Oct. 9th 2012



JIANGSU SANMU GROUP CO., LTD

GUANLIN TOWN, YIXING CITY, JIANGSU PROVINCE, 214258, CHINA

CERTIFICATE OF ANALYSIS

DIPROPYLENE GLYCOL (DPG)

LOT NO.: 201204001

PRODUCE DATE : April 12, 2012

ISSUED BY MANUFACTURER: JIANGSU SANMU GROUP CO.,LTD

ITEM	STANDARD POINT	RESULT
Appearance	Transparent clear liquid	Transparent clear liquid
Color (APHA)	≤ 10	10
Acid Number (mgKOH/g)	≤ 0.15	0.051
PG content %	$\leq 3\%$	0.64
TPG content %	$\leq 2\%$	1.68
DPG content %	$\geq 96\%$	96.64
Water content %	$\leq 0.1\%$	0.08

JIANGSU SANMU GROUP CO.,LTD.

Oct. 9th 2012



JIANGSU SANMU GROUP CO., LTD

GUANLIN TOWN, YIXING CITY, JIANGSU PROVINCE, 214258, CHINA

CERTIFICATE OF ANALYSIS

DIPROPYLENE GLYCOL (DPG)

LOT NO.: 201203004

PRODUCE DATE : May 21, 2012

ISSUED BY MANUFACTURER: JIANGSU SANMU GROUP CO.,LTD

ITEM	STANDARD POINT	RESULT
Appearance	Transparent clear liquid	Transparent clear liquid
Color (APHA)	≤ 10	10
Acid Number (mgKOH/g)	≤ 0.15	0.049
PG content %	$\leq 3\%$	0.69
TPG content %	$\leq 2\%$	1.73
DPG content %	$\geq 96\%$	97.25
Water content %	$\leq 0.1\%$	0.093

JIANGSU SANMU GROUP CO.,LTD.

Oct. 9th 2012