

Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
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Certificate of Analysis

Poloxamer 188

 Catalog Number:
 PO1003

 Lot Number:
 0510704

 CAS Number:
 9003-11-6

Chemical Name: EO-PO-EO Tri-Block Polymer

Storage: 15°C – 30°C Date of Manufacture: April 27, 2015

Retest Date: October 26, 2018 (date extended 6 months based on internal testing)

Test	Specification	Result
Appearance	White flakes	Conforms
Molecular Weight	7680 – 9510g/mol	9327g/mol
% Oxyethylene	79.9 – 83.7%	82.2%
Melting Point	50°C − 60°C	54.5°C
Color (10%, H ₂ O)	BY6-BY7, JB6-JB7	Conforms
pH (2.5%)	5.0 - 7.5	7.1
pH (10%)	5.0 – 7.5	7.4
Moisture (KF)	≤ 0.75%	0.192%
Sulfated Ash/Total Ash	≤ 0.4%	0.16%
Free EO	≤ 1.0%	0.4mg/kg
Free PO	≤ 5.0%	0.0mg/kg
MEG Content	≤ 620mg/kg	3mg/kg
Unsaturated Value	0.018 - 0.034meq/g	0.031meq/g
Hydroxyl Value	11.50 – 15.50mg KOH/g	12.03mg KOH/g
Residual Dioxane	≤ 5.0mg/kg	0.4mg/kg
Heavy Metals	≤ 10mg/kg	1.0mg/kg

Date: May 11, 2017

Approved by:

John Grubb, PhD

Gojira Fine Chemicals, LLC

Quality Manager

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