



**THE DOW CHEMICAL COMPANY
SALES SPECIFICATION**

Date Printed: 2016-10-12

Effective Date: 03/09/2012

Supersedes Date: 01/10/2006

Name: Butadiene

Specification Number: 000000012852

Previous Specified Material: 00012852

Final Testing Requirements

Test and Test Condition	Limit	Unit	Method	Note
1,3-Butadiene	99.60 Min	WT%	ASTM D2593	
1,2-Butadiene	20 Max	ppm wt	ASTM D2593	
Methyl Acetylene	10 Max	ppm wt	ASTM D2593	
Propadiene	10 Max	ppm wt	ASTM D2593	
1-Butene	Report	WT%	ASTM D2593	
2-Butene, cis-	Report	WT%	ASTM D2593	
2-Butene, trans-	Report	WT%	ASTM D2593	
Isobutylene	Report	WT%	ASTM D2593	
Vinyl Acetylene	10 Max	ppm wt	ASTM D2593	
alpha-Acetylenes	20 Max	ppm wt	ASTM D2593	1
Cyclopentadiene	5 Max	ppm wt	ASTM D2593	

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Test and Test Condition	Limit	Unit	Method	Note
C5 & Heavier HC	100 Max	ppm wt	ASTM D2593	2
Inhibitor (TBC)	75 — 125	ppm wt	ISO 8176	
Butadiene Dimer @ Depr	Report	ppm wt	ASTM D2426	3
Extraction Solvent	5 Max	ppm wt	ASTM E1140	4
Sulfur, Total	2 Max	ppm wt	ASTM D3246	
Chlorides, Total	5 Max	ppm wt	UOP 779	
Carbonyls as Acetald	10 Max	ppm wt	ASTM D4423	5
Methanol	10 Max	ppm wt	ASTM D4864	
Ethanol	10 Max	ppm wt	ASTM D4864	
Ammonia + Amines	5 Max	ppm wt	ASTM D4629	
Peroxides, as H2O2	5 Max	ppm wt	ASTM D5799	
Nonvolatile Residue	500 Max	ppm wt	ASTM D1025	
Oxygen in Vapor Space	0.20 Max	% vol	ASTM D2504	6
Appearance	Pass clear & particle free		Visual	

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Test and Test Condition	Limit	Unit	Method	Note
Water	100 Max	ppm wt	ASTM D1744	

Final Testing Requirements Notes:

- 1 Alpha-Acetylenes
Total of methyl-, ethyl- and vinyl-acetylene
- 2 HC = Hydrocarbons
- 3 @ Depr = at Departure
- 4 Extraction solvent
Terneuzen: Acetonitrile
Boehlen: N-Methylpyrrolidone
- 5 Acetald = Acetaldehyde
- 6 Oxygen in Vapor Space
Not applicable to BSL supplies.

READ PRECAUTIONARY INFORMATION AND MATERIAL SAFETY SHEETS. THIS PRODUCT IS SHIPPED IN COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS REGARDING CLASSIFICATION, PACKAGING, SHIPPING AND LABELING.