





***ENCYCLOPEDIA OF  
INDUSTRIAL CHEMICAL ADDITIVES***

**VOLUME II**

*Compiled by*  
**Michael and Irene Ash**

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## ***PREFACE***

This three-volume Encyclopedia is a comprehensive compilation of tradename products that function as additives in enhancing the properties of various major industrial products. With the cooperation of numerous national and international chemical companies, complete information on all applicable properties of these additives has been organized using technical data sheets and product bulletins as source material.

The Encyclopedia is divided alphabetically into sections based on principal function. As many of these additive products have many uses, extensive cross-referencing is provided. Under each category the tradename products are also listed alphabetically. An index to all tradename products is provided for each volume so that any additive can be found without knowing its principal function.

We believe that this Encyclopedia will prove to be an invaluable reference tool for chemists, engineers, and all those associated with the chemical manufacturing industry. We would like to thank all those companies who made this work possible through their contributions and we would like to also extend our warmest heartfelt thanks to Roberta Dakan who has devoted herself to helping make this work as accurate and consistent as possible.

**NOTE:**

Unless otherwise specified, when the temperatures are not given for properties such as viscosity, density, solubility, etc., a standard temperature of 25 C is to be assumed.

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## **ABBREVIATIONS**

@	at
ABS	acrylonitrile-butadiene-styrene
aq.	aqueous
ASTM	American Society for Testing Materials
avail	available
B.P.	boiling pt.
BS	British Standards
BS&D	backwashed, settled, and drained
Btu	British thermal unit
C	Centigrade
Cal	calories
cc	cubic centimeter
CC	closed cup
CD	cross direction
charact.	characteristics
chem.	chemical
cm	centimeter
COC	Cleveland Open Cup
coeff.	coefficient
comp.	compound
compr.	compressive
conc.	concentrated
conduct.	conductivity
const.	constant
cps	centipoise or cycles per second
defl. or deflect'n	deflection
dg.	decigram
dielec.	dielectric
DIN	Deutsche Industrie Normen
dissip.	dissipation
distort.	distortion
DMF	dimethylformamide
DOT	Department of Transportation
DWV	drain, waste, and vent
elec.	electrical
elong.	elongation



EPDM	ethylene propylene-diene monomer
esp.	especially
EVA	ethylene vinyl acetate
exp.	expansion
F	Fahrenheit
FAA	Federal Aviation Agency
FB	free base
FDA	Food and Drug Administration
flamm.	flammability
flex.	flexural
F.P.	freezing point
ft	foot
g	gram
G	giga
gal	gallon
gen'l.	general
gr.	gravity
GRP	glass-reinforced polyester
h	hour
HAF	high abrasion furnace carbon black
HB	horizontal burning
HC	hydrocarbon
hyd.	hydroxyl
hydrog.	hydrogenated
Hz	hertz
ICC	Interstate Commerce Commission
ignit.	ignition
in.	inch
incl.	including
insol.	insoluble
insul.	insulation
J	joule
k	kilo
kg.	kilogram
l.	liter
lb	pound
LDPE	low density polyethylene
m	milli or meter
M	mega
max.	maximum
MC	megacycle
MD	mold direction or machine direction

mech.	mechanical
med.	medium
MEK	methyl ethyl ketone
mfg.	manufacturing
mg	milligram
MIBK	methyl isobutyl ketone
MIL	Military Specifications
min.	minute
min.	minimum or mineral
misc.	miscellaneous
mm.	millimeter
mo	months
MOCA	methylene-bis-ortho-chloroaniline
mod.	modulus
M.P.	melting point
m.w.	molecular weight
N	Newton
no.	number
NR	natural rubber
OC	open crucible
OR	operating room
oz.	ounce
Pa.	Pascal
pbw	parts by weight
pcf	pounds per cubic foot
PET	polyethylene terephthalate
PMCC	Pensky-Martens Closed Cup
pH	hydrogen-ion concentration
phr	parts per hundred parts of resin or rubber
pkgs.	packages
PPD	piperidine pentamethylene dithiocarbamate
psi	pounds per square inch
pt.	point
PU	polyurethane
PVAc	polyvinyl acetate
PVC	polyvinyl chloride
PW	potable water
quat.	quaternary
qt.	quart
R&B	Ring & Ball
ref.	refractive or reference
resist.	resistance or resistivity
r.h.	relative humidity

rpm	revolutions per minute
R.T.	room temperature
s.	second
SAN	styrene-acrylonitrile polymer
sapon.	saponification
SBR	styrene-butadiene elastomer
soften.	softening
sol.	solubility or soluble
sol'n.	solution
sp.	specific
spec.	specification
SS	stainless steel
S/S	step by step
std.	standard
S/T	short time
str.	strength
surf.	surface
TCC	Taggart Closed Cup
TD	transverse direction
temp.	temperature
tens.	tensile
TDI	toluene diisocyanate
therm.	thermal
THF	tetrahydrofuran
TOC	Taggart Open Cup
trans.	transitional
UL	Underwriter's Laboratory
USDA	United States Department of Agriculture
uv.	ultraviolet
V	volt
visc.	viscosity
vol.	volume
W.E. or W. Elec.	Western Electric
wk	week
wt.	weight
yrs	years
<	less than
>	greater than
≤	less than or equal to
≥	greater than or equal to
≈	approximately equal to
μ	microns



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