

Appendix 1. Indonesia Population and Growth Rate.
(BPS, Statistical year book of Indonesia 1995).

Penduduk dan Laju Pertumbuhan Penduduk menurut Provinsi
Population and Growth Rate of Population by Province
1971, 1980, 1990 dan 1995
(October/October)

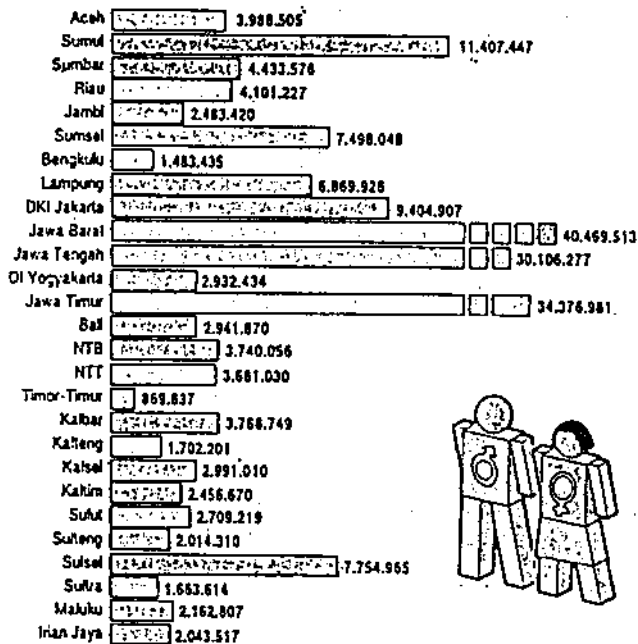
(1)	Penduduk <i>Population</i> (000)				Laju pertumbuhan penduduk pertahun <i>Annual growth rate of population</i> (%)		
	1971	1980	1990	1995 ¹⁾	1971-1980	1980-1990	1990-1995
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Daerah Istimewa Aceh	2 009	2 611	3 416	3 848	2,93	2,72	2,41
Sumatera Utara	6 622	8 361	10 256	11 115	2,60	2,06	1,62
Sumatera Barat	2 793	3 407	4 000	4 323	2,21	1,62	1,56
Riau	1 642	2 168	3 304	3 900	3,11	4,30	3,38
Jambi	1 006	1 446	2 021	2 370	4,07	3,40	3,24
Sumatera Selatan	3 441	4 630	6 313	7 208	3,32	3,15	2,68
Bengkulu	519	768	1 179	1 409	4,39	4,38	3,63
Lampung	2 777	4 625	6 018	6 658	5,77	2,67	2,04
DKI Jakarta	4 579	6 503	8 259	9 112	3,93	2,42	1,99
Jawa Barat	21 624	27 454	35 364	39 207	2,66	2,57	2,07
Jawa Tengah	21 877	25 373	28 521	29 653	1,64	1,18	0,78
DI Yogyakarta	2 489	2 751	2 913	2 917	1,10	0,57	0,02
Jawa Timur	25 517	29 189	32 504	33 844	1,49	1,08	0,81
Bali	2 120	2 470	2 778	2 896	1,69	1,18	0,83
Nusa Tenggara Barat	2 203	2 725	3 370	3 646	2,36	2,15	1,59
Nusa Tenggara Timur	2 295	2 737	3 269	3 577	1,95	1,79	1,82
Timor Timur		555	748	840	-	3,02	2,35
Kalimantan Barat	2 020	2 486	3 229	3 636	2,31	2,65	2,40
Kalimantan Tengah	702	954	1 396	1 627	3,43	3,88	3,11
Kalimantan Selatan	1 699	2 065	2 598	2 893	2,16	2,32	2,18
Kalimantan Timur	734	1 218	1 877	2 314	5,73	4,42	4,28
Sulawesi Utara	1 718	2 115	2 478	2 649	2,31	1,60	1,34
Sulawesi Tengah	914	1 290	1 711	1 938	3,86	2,87	2,52
Sulawesi Selatan	5 181	6 062	6 982	7 558	1,74	1,42	1,60
Sulawesi Tenggara	714	942	1 350	1 587	3,09	3,66	3,29
Maluku	1 090	1 411	1 858	2 087	2,68	2,79	2,35
Irian Jaya	923	1 174	1 649	1 943	2,67	3,46	3,34
Indonesia	119 206 ²⁾	147 450	179 381	194 735	2,32 ²⁾	1,98	1,66

Catatan :

- 1) Termasuk penduduk yang tidak bertempat tinggal tetap, kecuali pada tahun 1995
including persons with no permanent residence, except in 1995
- 2) Tidak termasuk Timor Timur/*Excluding Timor Timur*
- 3) Berdasarkan Supas 1995/*Based on 1995 Intercensal Population Survey*

Appendix 2. 1997 Estimated Population and Distribution in Indonesia.
 (Kompas Newspaper, February 4, 1997).

**PERKIRAAN JUMLAH PENDUDUK INDONESIA HARI INI
 PER PROPINSI**



Catatan: Angka-angka ini dihitung oleh Kantor Menteri Negara Kependudukan/BKKBN menggunakan Sumber Data Supas dan Perkiraan Lainnya.
 Sumber: BKBKN

Appendix 3. ISO-9002 Certificate of PT. XYZ Indonesia.



SGS Yarsley
International Certification Services Limited

Certificate Number

9515967

This is to certify that the
Quality Management systems of

PT Union Carbide Indonesia

Jakarta, Indonesia

have been assessed and registered as meeting the
requirements of ISO 9002

The scope of registration is detailed on the Assessment
Schedule bearing this certificate number.

SGS Yarsley International Certification Services Ltd
Signed by

21 November 1995

This certificate will be renewed after three
years subject to satisfactory maintenance
of the system



Registered Office:
SGS Yarsley
International Certification Services Limited
SGS House, 217/221 London Road,
Canterbury, Surrey GU15 3EY, United Kingdom.

Whilst all the care and skill are exercised in carrying out this assessment, SGS Yarsley R.S. accepts responsibility only for providing an objective opinion. This is not a legal statement and cannot be used as such. The use of the Accreditation mark does not imply certification, any such accreditation in the respect of those activities covered by that Accreditation Authority. This certificate remains the property of SGS Yarsley R.S. to whom it must be returned on request.



Registration Number
005



Certificate of Approval

Awarded to
P.T.UNION CARBIDE INDONESIA
JALAN RAYA JAKARTA BOGOR KM. 29
3 CIMANGGIS 16952
INDONESIA

Bureau Veritas Quality International certify that the Management System of the above operator has been assessed and found to be in accordance with the requirements of the environmental standards and operational scope detailed below

ENVIRONMENTAL STANDARDS

ISO 14001:1996

OPERATIONAL SCOPE

MANUFACTURE OF SYNTHETIC RESIN EMULSION,
FINE AND SPECIALTY POLYMERS

Subject to the continued satisfactory implementation of the operator's Management System, this Certificate is valid for a period of three years from:

3RD DECEMBER 1997

Date 23RD DECEMBER 1997



For Bureau Veritas Quality International

Certificate No: 43829

SF06/T3

The use of the Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 018

Appendix 5. Product List of PT. XYZ Indonesia.

LATEX FOR PAINT APPLICATION

PRODUCT	MAIN APPLICATIONS	PERFORMANCE FEATURES
VINYL ACRYLIC COPOLYMERS		
UCAR T-180 HV	General Purpose emulsion paints	Scrub resistance, High pigment loading.
UCAR R-350	General Purpose emulsion paints	Excellent scrub resistance, Flow & levelling.
UCAR R-352	General Purpose emulsion paints	Scrub resistance, High pigment loading, Gloss & Colour development.
VINYL ACETATE-VEOVA COPOLYMERS		
UCAR N-3079	Interior & Exterior emulsion paints	UV resistance, Weather durability, High scrub & Alkaline resistance.
UCAR N-3073	Interior & Exterior emulsion paints	Excellent scrub & Alkaline resistance UV resistance, Weather durability.
UCAR N-3099	Interior & Exterior emulsion paints	High gloss, Non blocking, Colour development, Alkaline resistance, UV-resistance
UCAR N-3061	Interior & Exterior emulsion paints	High gloss, Very hard film, Low dirt pick up, Excellent alkaline & UV-resistance
STYRENE - ACRYLIC COPOLYMERS		
UCAR R-57	Interior & Exterior emulsion paint	Low yellowing, Excellent water resistance.
UCAR N-3006	Interior & Exterior emulsion paint	Freeze thaw stable, High pigment loading. High scrub resistance.
UCAR N-3045	Flexographic printing inks	Ink viscosity stability, Color development.
ALL ACRYLIC		
UCAR R-361	Exterior & Interior emulsion paints	Gloss retention, Water & alkaline resistance, Wet Adhesion.
UCAR T-309	Exterior & Interior emulsion paints	Medium hard film, Gloss retention, Medium high PVC.
UCAR N-3068	Exterior & Interior emulsion paints	Storage stability, Good flow, Low dirt pick up, Gloss retention.

PRODUCT	MAIN APPLICATIONS	PERFORMANCE FEATURES
ALL ACRYLIC POLYMERS (Continued)		
UCAR N-3023	Exterior emulsion paints	Very hard film, 6 years guarantee, Gloss retention.
UCAR PE-1119	Exterior emulsion paints & Metal coatings	Gloss retention, High molecular weight, Excellent adhesion.
PVAc HOMOPOLYMERS		
UCAR PE-1109	General Purpose / Economic Emulsion Paints	Very high viscosity latex, Economic paints.
UCAR PE-1108	General Purpose / Economic Emulsion Paints	High viscosity latex, Economic paints.
DISPERSION & WETTING AGENTS		
UCAR PW-1025	Wetting agent	General wetting properties.
UCAR R-4020	Dispersing agent	General dispersing agent.
BUILDING PRODUCT		
UCAR PE-1805 A	Caulks and sealants	Flexible, Self thickening, UV resistant
UCAR BN-3001	Waterproofing	Good Elongation, Soft films, Water resistant.
UCAR V-7649	Cement modifier, Self levelling Underlayments	Outstanding alkaline resistance, Compatible with many cement formulation.
ACRYLIC FLOW MODIFIERS		
UCAR PP-104	Flow Modifier	Cellulosic type rheology with very high Stormer efficiency.
UCAR I-251	Acrylic Thickener	High viscosity response.

LATEX FOR PSA AND ADHESIVE APPLICATION

PRODUCT	MAIN APPLICATIONS	PERFORMANCE FEATURES
PRESURE SENSITIVE ADHESIVES		
UCAR N-1076 SA	OPP Tapes	Yellowing, High peel, High shear, Medium tack.
UCAR AX-9317 HS	OPP Tapes	Transparence, High peel, High shear, Medium tack.
UCAR R-9319 SP	OPP Tapes	Transparence, Medium peel, High shear, High tack.
UCAR A-4040	Table Adhesive	Solvent resistant.
UCAR AE-2988 B	Stickers / Labels	Permanent stickers, Permanent labels, High shear, and High peel.
UCAR N-1076 HV	Slickers / Labels	High tack, High shear, and High peel.
UCAR A-4004	Slickers / Labels	Permanent slickers, Permanent labels, High shear, and High peel.
UCAR CN-1126	Stickers / Labels	Water/solvent resistane, Permanent sticker.
UCAR N-9640	Double Side Tapes	High peel and High shear.
WOOD WORKING ADHESIVES		
UCAR A-4611 M	Wood - Paper Overlay	High solids, Initial tack & Permanent adhesion.
UCAR DN-1212 HV	Wood - Paper Overlay	Urea formaldehyde resins compatible.
UCAR X-28-6 M	Wood - Paper Overlay	Initial tack & Permanent adhesion.
UCAR X-28-23	Wood - Paper Overlay	Low solids, Low cost.
UCAR A-4954 HV	Wood - PVC Overlay	EVA based, General purpose.
UCAR A-4954 SP	Wood - PVC Overlay	EVA based, Heat resistant.

PRODUCT	MAIN APPLICATIONS	PERFORMANCE FEATURES
ADHESIVES FOR MATCHES		
UCAR A-4901 A	Boxes	Heat resistance, Initial tack & Permanent adhesion.
UCAR AE-29112 A	Striking surfaces	Compatible with phosphorus.
ADHESIVES FOR GUMMED TAPES		
UCAR N-1153	Dry veneer	Initial tack, Fast setting
UCAR N-1154	Green veneer	Balance of water resistance and water solubility
ADHESIVES FOR ALBUMS		
UCAR FN-1540 M	Surface glue	Mechanical stability, Soft film.
UCAR FN-1518	Inner glue	Initial tack, Permanent adhesion.
UCAR FN-1532 B	Cover glue	Permanent adhesion, Thixotropic.
ADHESIVES FOR GENERAL PURPOSE		
UCAR AE-2824	Wood, Paper and Retail	High viscosity, Low solids.
UCAR AE-2969 P	Wood, Paper, Putty	Medium viscosity, Low solids, High pigment loading.
UCAR AE-2974	Wood, Paper	Medium viscosity, Economic glue.
UCAR RN-1920	Wood, Paper, Putty	High viscosity, Economic glue.
UCAR A-4006	Wood, Paper	Medium solids, High viscosity.
UCAR A-4000	Wood, Paper	Medium solids, Medium viscosity.
UCAR A-4053	Wood, Paper	Medium solids, High viscosity.
UCAR A-4053 A	Wood, Paper	Medium solids, Medium viscosity.

PRODUCT	MAIN APPLICATIONS	PERFORMANCE FEATURES
UCAR N-1050 C	Wood to wood	High solids, Medium viscosity, Fast setting.
UCAR N-1050 B	Wood to wood	High solids, Medium viscosity, Fast setting.
UCAR S-117 X	Wood to wood	Medium solids, High viscosity, High tensile strength
UCAR S-117 XLV	Wood to wood	Medium solids, Medium viscosity, High tensile strength
ADHESIVE FOR PAPER		
UCAR X-24-5	Aluminium foil to Paper/Kraft paper	Adhesion to difficult surfaces.
UCAR AE 2421	Aluminium foil to Paper/Kraft paper	High viscosity, Low cost.
UCAR A-4771 A	Tube winding	High solids, Fast setting and Hard Film.
UCAR S-117 X HS	Tube winding	High solids, Fast setting, Very hard Film, High viscosity.
UCAR AE-2208 B	Tube winding	Medium solids, Hard Film.
UCAR NN-1302	Tube winding	Medium solids, Very hard film.
UCAR DN-1206	Tube winding	Low solids, Low cost.
UCAR AE-2639 B	HLP Cigarette	EVA based, Aluminium paper.
UCAR FN-1560	HLP Cigarette	EVA based, Metalized paper.
UCAR AE-2623 E	CTP Cigarette	Initial tack, High speed machine.
UCAR X-2621	Battery labelling	Good adhesion, Fast setting and Flexible film.
UCAR X-23-1 M2	Envelope and postage stamp	Water sensitive film.

LATEX FOR TEXTILE APPLICATION

PRODUCT	MAIN APPLICATIONS	PERFORMANCE FEATURES
STIFFENING AGENTS		
UCAR N-2401 HS	Stiffening Agent	Exhaust & Padding processes, Hard film.
UCAR N-2401 LS	Stiffening Agent	Padding process, Hard film.
ACRYLICS FOR SIZING		
UCAR N-2399 A	Sizing Agent	Water jet, Filament yarn, High speed sizing (>100 meter/minute).
UCAR N-2388	Sizing Agent	PVOH content, Non water jet, Filament yarn low, Low speed sizing. (<100 meter/minute).
UCAR N-2318	Sizing Agent	Spun yarn, Abrasion resistant.
ACRYLICS FOR LEATHER		
UCAR CN-2312	Leather Board	Flexible, High pigment loading, Non blocking.
ACRYLICS FOR LAMINATING		
UCAR EN-2412 D	PU - Fabric lamination	Water resistant, Low yellowing.
UCAR EN-2410 B	PU - Fabric lamination	Not water resistant, Medium quality.
UCAR EN-2404	PU - Fabric lamination	Not water resistant, Low cost.
BACKCOATING & FLOCKING		
UCAR I-831	Flocking	Soft, Flexible Films, Dry & wet fastness
UCAR N-2353 IMP	Backcoating	Flexible Film, Self thickening, High pigment loading, Soft, Water resistant.
UCAR N-2391	Backcoating	Stable Foam, Soft drapery, Flexible film, Water and Solvent resistant, Good elongation, Non-tacky.

PRODUCT	MAIN APPLICATIONS	PERFORMANCE FEATURES
NONWOVEN BINDERS		
UCAR H-806	Fiberfill nonwovens	Hard film, Non yellowing.
UCAR N-740	Fiberfill nonwovens	Hard film, Resiliency.
UCAR N-960	Fiberfill nonwovens	Medium hard film, Resiliency.
UCAR N-2390	Fiberfill nonwovens	Medium soft film, Resiliency.
UCAR H-893	Fiberfill nonwovens	Soft film, Resiliency.
UCAR H-8603	Fiberfill nonwovens	Very soft film, Non tacky.
UCAR IN-2215 IMP	Interlining nonwovens	Hard film.
UCAR TM	Interlining nonwovens	Water & solvent resistant, Medium hard film.
UCAR T-893	Interlining nonwovens	Water & solvent resistant, Soft film.
UCAR N-2409	Interlining nonwovens	Hard film, Mechanical stability, Foam interlinings.
UCAR N-2319	Interlining nonwovens	Soft film, Mechanical stability, Foam interlinings.
UCAR TE-3316 S	Chemie sheet/Shoe toe lining	Very hard, Flexible film & Toluene soluble.
PIGMENT PRINTING BINDERS		
UCAR I-826	Acrylic for Sreen Printing	Dry & wet fastness, Color development, Rotary & Flat Printing, Soft film.
UCAR I-831	Acrylic for Pigment Paste Printing	High pigment loading, rubbery film.
UCAR HN-2500	Vinyl Acrylic for Pigment Printing	Low cost, Soft film.

