

Quality Control

Inspection is conducted using a statistical sampling plan based on **ANSI/ASQC Z1.4** with **AQL Major:2.5 Minor:4.0**. Every precaution is taken to produce a quality product. Dedicated Quality Controls staff carries out the quality control.

Incoming Quality Check (IQC)

IQC is based on AQL 2.5 Single Sampling Plan, where 10% (or according to single sampling chart) of all piece goods received are inspected by a Quality Inspector. This 10% inspection includes parts, components, units, rolls, colors and/or patterns and avoids costly delays and re-working by inspecting the storage of raw materials and components before the first production run.

During Production Services (DUPRO)

Our experts supervise critical steps in mass production to ensure that the final products meet the agreed specifications.

Final Random Inspection (FRI)

This audit is conducted using a statistical sampling plan based on **ANSI/ASQC Z1.4** with **AQL Major:2.5 Minor:4.0**. A random sample of merchandise pulled from finished inventory based on AQL 2.5 table. Lots rejected are sent for re-screening if the number of defective units exceeds the parameters in table 2.5 AQL.

Reliability Test

Our QC usually according to **ANSI/ASQC Z1.4** S-2 Sampling Plan to do reliability test; the reliability test includes: Life test, Born-in test, Operation temperature & Storage temperature test, Drop test, Vibration test, Rust-proof test, Shock test, Color fastness test, etc.

International Standard & Certificates

Our products comply with the relative International Standard & Directives; e.g. CE, FCC, RoHS, WEEE, PHAs, REACH etc. we usually got the test report & certificates from CAM or SGS;

AQL Chart

The following AQLs are usually applied

	Medium to Low Priced Articles
For critical defects	No critical defect is accepted
For major defects	AQL 2.5
For minor defects	AQL 4.0

Lot/Batch Size			General inspection levels		
			I	II	III
2	To	8	A	A	B
9	To	15	A	B	C
16	To	25	B	C	D
26	To	50	C	D	E
51	To	90	C	E	F
91	To	150	D	F	G
151	To	280	E	G	H
281	To	500	F	H	J
501	To	1200	G	J	K
1201	To	3200	H	K	L
3201	To	10000	J	L	M
10001	To	35000	K	M	N
35001	To	150000	L	N	P
150001	To	500000	M	P	Q
500001	And	Over	N	Q	R

Sample size code letter	Sample size	Acceptable quality levels (normal inspection)																							
		0.065		0.10		0.15		0.25		0.40		0.65		1.0		1.5		2.5		4.0		6.5			
		Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re	Ac	Re		
A	2																								
B	3																								
C	5																								
D	8																								
E	13																								
F	20																								
G	32																								
H	50																								
J	80																								
K	125																								
L	200																								
M	315																								
N	500																								
P	800																								
Q	1,250																								
R	2,000																								

Example:

Lot with 10,000 units when using the statistical sampling plan based on **ANSI/ASQC Z1.4** with **AQL Major:2.5 Minor:4.0** will have the following result:

a) Samples to be checked:

200 PCS

b) AQL:

Critical : 0 units
 Major: 10 accepted / 11 rejected
 Minor: 14 accepted / 15 rejected

Quality Standard

In order to perform an inspection, a quality standard for the product to be inspected must be drafted. Normally the client will send their quality standard to our inspector. The draft will be checked by our inspector against the product specifications and the final product to be produced and then commented. Once the draft as been agreed by both parties, the CRITICAL, MAJOR and MINOR classification will be finalized.

The QC department will send the approved quality standard to the appointed vendors, and require the vendors to control the mass-production quality according to these guidelines.