ROFF MILLING

Pre-intake Quality Control Checklist

INCOMING MAIZE QUALITY SPECIFICATION

PARAMETER	ACCEPTANCE LIMIT	REJECT / ESCALATE IF:	TEST METHOD
MOISTURE CONTENT	≤ 13% (Recommended for milling)	> 14% (High risk of heating, mould in storage)	Calibrated moisture meter (verify annually)
KERNEL QUALITY & SIZE	Large, hard kernels Intact, uniform	Excessive soft kernels, broken/damaged kernels, shriveled grain	Visual inspection + 100-kernel weight
LIVE INSECTS	Zero tolerance for live insects	Any live insects present ("Weevilly" loads - segregate immediately)	Visual inspection of sample 2 samples per hatch using grain probe
FOREIGN MATTER & IMPURITIES	< 2% total < 0.1% stones/metal	> 2% foreign matter > 0.1% stones, metal, glass	Manual separation and weighing of 500g sample
NOXIOUS SEEDS / WEED SEEDS	≤ 1 seed per 10 kg sample	> 1 seed in 10 kg Or any toxic seeds	Manual inspection of representative sample
MOULD / FUNGAL DAMAGE	No visible mould No musty odor	Visible mould growth Musty/off odors Hot spots in grain	Visual + smell test Temperature probe for hotspots
MYCOTOXIN RISK (AFLATOXIN)	Complies with local regulations (typically < 10 ppb)	Field history of ear rot Visible mould Consider testing	Test strips or lab analysis (for high-risk loads)
DAMAGED KERNELS	< 5% damaged	> 5% heat-damaged, rotten, or insect-damaged kernels	Visual count in 100-kernel sample

Sampling procedure

Bulk Trucks: Take 2 samples per hatch using grain probe. Insert deep and across load for representative sample.

Bagged Maize: Sample 10% of bags randomly from different parts of the delivery. Mix samples for testing.

Sample Size: Minimum 1 kg composite sample for full quality assessment.

Intake action protocol

ACCEPT	All parameters within limits → Proceed to intake and storage
CONDITIONAL ACCEPTANCE	Minor deviations (e.g. 13-14% moisture) → Segregate, dry before milling, or reduce price
ESCALATE	Borderline parameters → Supervisor review + additional testing
REJECT	Critical failures (>14% moisture, live insects, visible mould, excessive foreign seeds) → Do not accept

Notes:

- Calibrate intake scale annually (high-traffic weighbridges every 6 months). Typical tolerance: ±0.25%
- Document all rejections and conditional acceptances with reasons
- For mycotoxin concerns on high-risk loads, consider lab testing before acceptance
- Train intake team on consistent application of this spec

Document Control: Version 1.0 | Prepared by Roff Milling | www.roffmilling.com | +27 56 212 2697

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