

ixetic GmbH

General Information concerning the supplier assessment:

- Preamble
- Explanation of the ratios (PLQ, LLQ, EMQ, PPM)
 - Point allocation
 - Weighting
- Extract of a monthly supplier assessment



Preamble

- By the supplier assessment ixetic pursues target-oriented and holistic improvements of key suppliers
- Due to the monthly focus on the criteria, the supplier achieves an actual status of the ixetic view concerning the quality of the deliveries.
- Based on the results of the assessment it is possible for ixetic to prepare the yearly supplier awards. In addition ixetic invites the suppliers to a quality meeting to analyze the necessary potentials and to start programs for quality development.

- The aim of the supplier assessment is clear:

"Only with the fulfillment of the requirements regarding the logistic and quality performance it is possible to be successful in the relationship between supplier, ixetic and OEM in future."



Ratio overview

- Problem Supplier Quality – PLQ
- Logistic Supplier Quality – LLQ
- Initial Sample quality – EMQ
- PPM - Rate



Problem-Supplier-Quality (PLQ)


PLQ is a ratio starting with the production delivery. This ratio refers to process errors. It is irrespective of delivery quantity and frequency.

Calculation of PLQ:

$$\text{PLQ} = 1 \times a + 1 \times b + 2 \times c + 3 \times d + 4 \times e + 5 \times f$$

- a) Number of deliveries with special releases (before delivery supplier asked ixetic about special releases)
- b) Number of investigation information about single faults, which were sent to the supplier
- c) Number of deviations found during incoming inspection
- d) Number of reminders regarding claims, which were not answered
- e) Number of claims in production or stock of finished parts
- f) Number of faults, which have reached the customer

Remarks:

- 1) The supplier has to ask ixetic for concession. In case of a release, the delivery release is valid for this part. (limited to quantity and period).
 - 2) In case of several failures during one incoming inspection, these failures get registered in PLQ as one failure.
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Logistic-Supplier-Quality - LLQ


The LLQ is a ratio starting with the production delivery. This ratio refers to logistical process errors. It is irrespective of delivery quantity and frequency.

Calculation of LLQ:

$$\text{LLQ} = 1 \times a + 2 \times b + 2 \times c + 3 \times d + 4 \times e + 5 \times f$$

- a) Number of deliveries concerning quantity deviation. Only occurrence but not extent of the deviation will be assessed
- b) Number of deliveries concerning schedule variance. Only occurrence but not extent of the variance will be assessed.
- c) Number of deliveries concerning wrong packaging
- d) Number of part deliveries
- e) Number of deliveries, which caused extra tours to supplier and/or customer
- f) Number of customer claims caused by logistical faults of the supplier

Remarks:

- 1) In case of several failures during an incoming inspection, the failure with the most significant effects gets registered in LLQ only.
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Initial Sample Quality - EMQ


The EMQ is a ratio starting with the production delivery. This ratio refers to initial sample process errors. It is irrespective of initial sample quantity and frequency.

Calculation of EMQ:

$$\text{EMQ} = 1 \times a + 3 \times b + 2 \times c + 3 \times d + 1 \times e + 5 \times f$$

- a) Number of initial samples, which are released including requirements
- b) Number of initial samples, which are delayed
- c) Number of initial samples with incomplete documents
- d) Number of initial samples, which are rejected
- e) Number of repetitions until initial sample is released
- f) Number of initial samples, which influence the start of production or which requires a special release

Remarks:

- 1) In case of several failure during an initial sampling process, the failure with the most significant effects gets registered in EMQ only.
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PPM-Rate

The ppm-rate is a ratio of quantity of delivered parts and faulty/reworking parts referring to 1.000.000 parts.

Calculation of the PPM rate:

$$\text{PPM} = \frac{\text{quantity of faulty parts} \times 1.000.000}{\text{quantity of delivered parts}}$$



Supplier Assessment



- The supplier data will be updated monthly
- The data will be sent by email
- Please use the following email-address for statements and further questions

Lieferantenbewertung@ixetic.com

Precision to move

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|-------|-------------|---------------|---------------------------------|
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Supplier Assessment

Dear Sir or Madam,

following you find the supplier assessment for the period mentioned above:

| Value | Monthly result | Max. [monthly] | Annual result | Max. [annual] |
|-------|----------------|----------------|---------------|---------------|
| EMQ | 0 | | 0 | |
| LLQ | 0 | | 0 | |
| PLQ | 0 | | 0 | |
| PPM | 0 | | 0 | |

EMQ=Initial Sample Quality LLQ=Logistical Supplyment Quality PLQ=Quality Problems PPM=Parts per Milion

In case of exceeding maxima, we expect you to give a written statement within a five-day-period after receipt and take appropriate measures in order to avoid repeating errors within common assessments.

Please use the contact above for statements and further questions.

Best regards

**ixetic Bad Homburg GmbH,
ixetic Hückeswagen GmbH**

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