



Supplier Quality Index - SQI

SUPPLIER NAME

SUPPLIER CODE

FAMILY

IQF Materiais Importados

SQI - Supplier Quality Index (Annual Average)

94,00

Annual Classification:

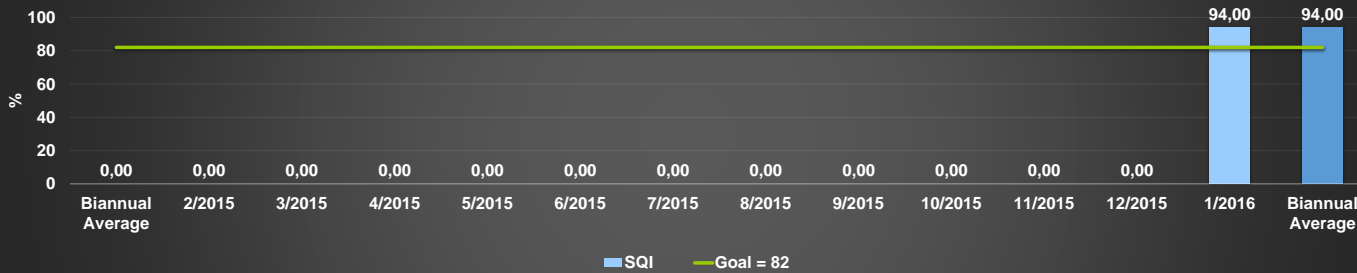
A

E-mail Contact 1:

E-mail Contact 2:

E-mail Contact 3:

SQI - SUPPLIER QUALITY INDEX

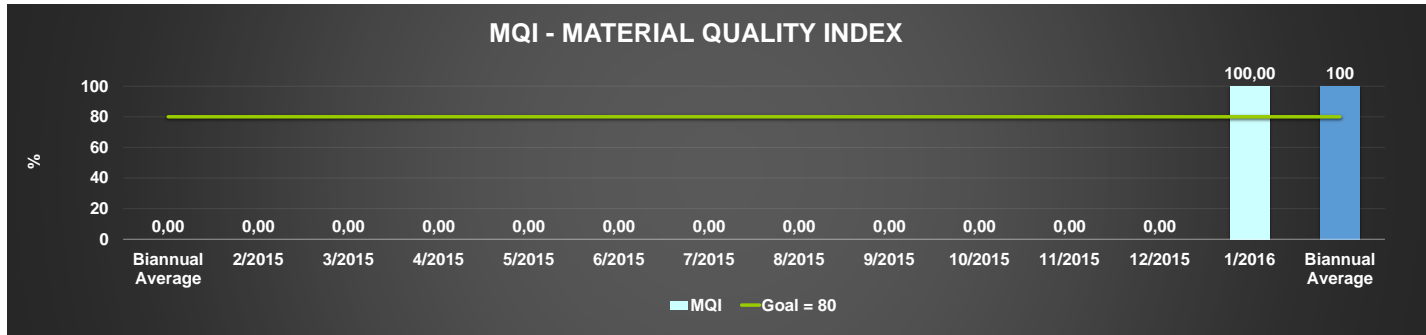


The SQI (Supplier Quality Index) is obtained by using the following formula:

$$SQI = ((45\% \times MQI) + (10\% \times CAI) + (10\% \times PRI) + (5\% \times QSI) + (30\% \times CPI)) \times D11$$

Classification	SQI	Classification
VERY GOOD	90 ≤ SQI ≤ 100	A
GOOD	80 ≤ SQI < 90	B
REGULAR	70 ≤ SQI < 80	C
BAD	60 ≤ SQI < 70	D
VERY BAD	0 ≤ SQI < 60	E

	Biannual Average	2/2015	3/2015	4/2015	5/2015	6/2015	7/2015	8/2015	9/2015	10/2015	11/2015	12/2015	1/2016	Biannual Average
MQI - MATERIAL QUALITY INDEX (Maximum Score: 45)													45,00	45,00
CAI - CORRECTIVE ACTIONS INDEX (Maximum Score: 10)													10,00	10,00
PRI - PROMPT REPLY INDEX (Maximum Score: 10)													10,00	10,00
DQI - DELIVERY QUALITY INDEX (Maximum Score: 20)														
QSI - QUALITY SYSTEM INDEX (Maximum Score: 5)													5,00	5,00
CPI - COMMERCIAL POSTURE INDEX (Maximum Score: 30)													24,00	24,00
SQI MONTHLY - SUPPLIER QUALITY INDEX													94,00	94,00
LAST MONTH'S CLASSIFICATION													A	A



The MQI (Material Quality Index) measures the supplied product conformity regarding to Tupy specifications.

$$MQI = [(d1) \times (d2) \times (d3) \times (d4) \times (d5)] \times 100$$

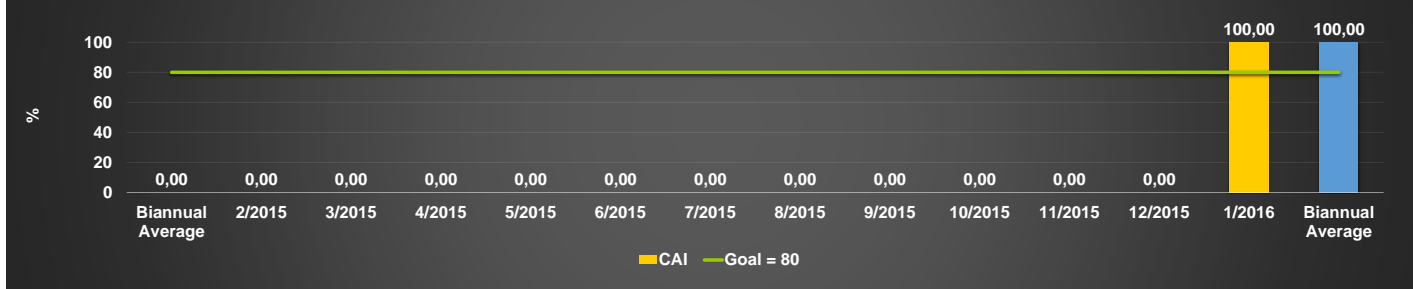
Where:
d1 is the demerit applied about instances of outsourcing inspection (see table) and d2 until d5 are demerits applied about the detection places of no-conformity (see table).

N° of instances	d1
0	1
1	0,9
2	0,6
3	0,4
4	0,2
5 or more	0

Qty of disapproved lots	d2 = incoming inspection	d3 = application	d4 = customer	d5 = field
0	1,00	1,00	1,00	1,00
1	0,80	0,60	0,40	0,20
2	0,64	0,36	0,16	0,04
3	0,51	0,22	0,06	0,01
4	0,41	0,13	0,03	0,00
5	0,33	0,08	0,01	0,00
6	0,26	0,05	0,00	0,00
7	0,21	0,03	0,00	0,00
8	0,17	0,02	0,00	0,00
9	0,13	0,01	0,00	0,00
10 or more	0,11	0,01	0,00	0,00

Category: MQI - MATERIAL QUALITY INDEX	Index	Biannual Average	2/2015	3/2015	4/2015	5/2015	6/2015	7/2015	8/2015	9/2015	10/2015	11/2015	12/2015	1/2016	Biannual Average
Quantity of outsourcing inspection at Tupy for containments	Qty		0	0	0	0	0	0	0	0	0	0	0	0	
Quantity of rejected lots on incoming inspection	Qty		0	0	0	0	0	0	0	0	0	0	0	0	
Quantity of rejected lots on application	Qty		0	0	0	0	0	0	0	0	0	0	0	0	
Quantity of rejected lots on customer	Qty		0	0	0	0	0	0	0	0	0	0	0	0	
Quantity of rejected lots on field	Qty		0	0	0	0	0	0	0	0	0	0	0	0	
d1 = Demerit applied for outsourcing inspection at Tupy for containments	Factor														
d2 = Demerit applied about rejected lots on incoming inspection	Factor														
d3 = Demerit applied about rejected lots on application	Factor														
d4 = Demerit applied about rejected lots on customer	Factor														
d5 = Demerit applied about rejected lots on field	Factor														
MQI - Material Quality Index	Grade													100,00	100

CAI - CORRECTIVE ACTIONS INDEX



The CAI (Corrective Actions Index) is obtained using the following formula :

$$CAI = [(d6) \times (d7) \times (d8) \times (d9)] \times 100$$

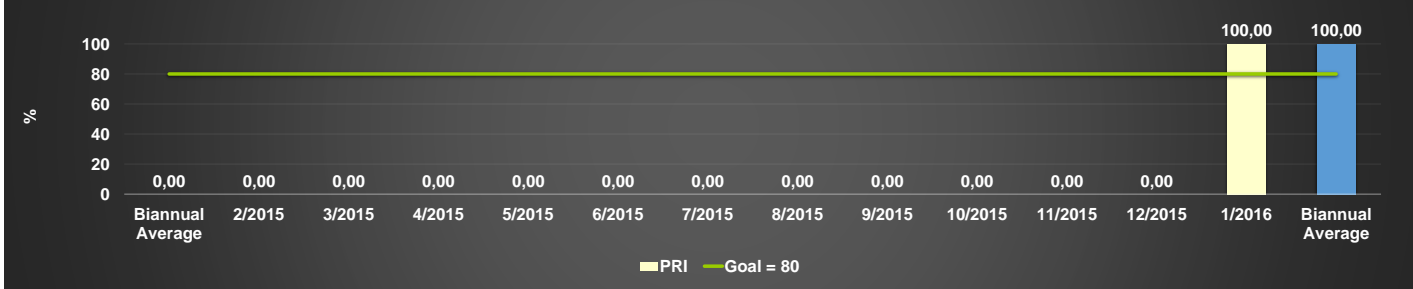
Where d6 until d9 are demerits for the detection places (see table).

Qty. SNCR	d6 = incoming inspection	d7 = application	d8 = customer	d9 = field
0	1,00	1,00	1,00	1,00
1	0,80	0,60	0,40	0,20
2	0,64	0,36	0,16	0,04
3	0,51	0,22	0,06	0,01
4	0,41	0,13	0,03	0,00
5	0,33	0,08	0,01	0,00
6	0,26	0,05	0,00	0,00
7	0,21	0,03	0,00	0,00
8	0,17	0,02	0,00	0,00
9	0,13	0,01	0,00	0,00
10 or more	0,11	0,01	0,00	0,00

SNCR: Supplier Non Conformity Report.

Category: CAI - CORRECTIVE ACTIONS INDEX	Index	Biannual Average	2/2015	3/2015	4/2015	5/2015	6/2015	7/2015	8/2015	9/2015	10/2015	11/2015	12/2015	1/2016	Biannual Average
Quantity of originated SNCR on incoming inspection	Qty		0	0	0	0	0	0	0	0	0	0	0	0	
Quantity of originated SNCR on application	Qty		0	0	0	0	0	0	0	0	0	0	0	0	
Quantity of originated SNCR on tupy customer	Qty		0	0	0	0	0	0	0	0	0	0	0	0	
Quantity of originated SNCR on field	Qty		0	0	0	0	0	0	0	0	0	0	0	0	
d6 = Demerit for originated SNCR on incoming inspection	Factor														
d7 = Demerit for originated SNCR on material application	Factor														
d8 = Demerit for originated SNCRon tupy customer	Factor														
d9 = Demerit for originated SNCR on field	Factor														
CAI - Corrective Actions Index	Grade													100,00	100,00

PRI - PROMPT REPLY INDEX



The PRI (Promp Reply Index) is obtained using the following formula :

$$PRI = (d10) \times 100$$

Where: d10 = Demerit applied for the number of delay days of SNCR with proposed corrective actions. The delay days are counted after 5 days of SNCR's issuance (see table).

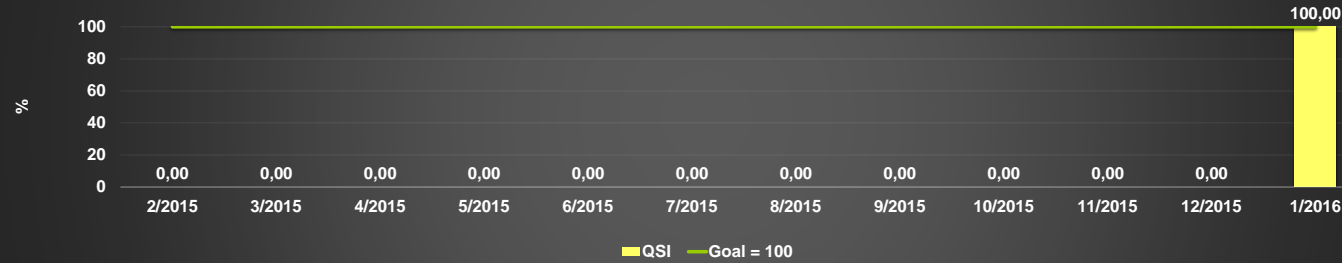
Nº of days	d10
0	1,00
1 until 4	0,90
5 until 8	0,80
9 until 14	0,70
15 until 19	0,60
20 until 24	0,50
25 or more	0,00

Obs. If there is more than one overdue report the delay days will be add.

SNCR: Supplier Non Conformity Report.

Category: PRI - PROMPT REPLY INDEX	Index	Biannual Average	2/2015	3/2015	4/2015	5/2015	6/2015	7/2015	8/2015	9/2015	10/2015	11/2015	12/2015	1/2016	Biannual Average
Days of delay response of corrective actions	Qty		0	0	0	0	0	0	0	0	0	0	0	0	
d10 = Demerit applied for delay response of corrective actions	Factor														
PRI - Prompt Reply Index	Grade													100,00	100,00

QSI - QUALITY SYSTEM INDEX



The QSI (Quality System Index) is scored as follows:

Components and Production Services suppliers

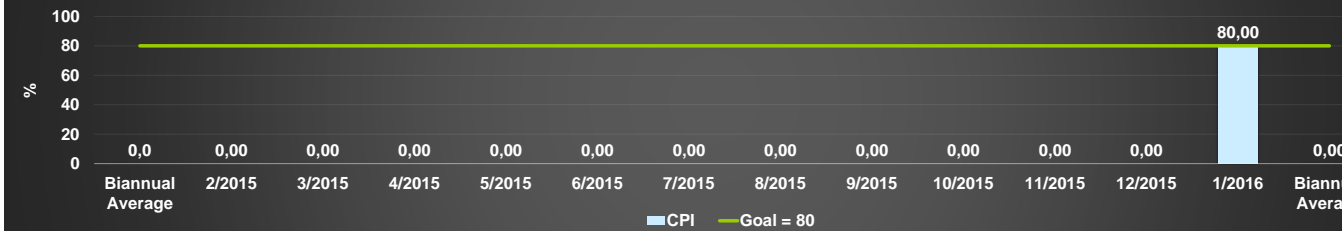
The maximum score, 100%, is obtained with certification according to ISO / TS 16949.
Obs.: For the suppliers only certified with ISO 9001 belonging to these groups, the maximum score is 50% .

Other Groups suppliers

The maximum score, 100%, is obtained with certification according to ISO 9001.
Obs.: For suppliers not certified with ISO 9001 belonging to these groups, the maximum score is 50% since undergoing an audit of Tupy, based on VDA 6.3.

Category: QSI - QUALITY SYSTEM INDEX	Index	2/2015	3/2015	4/2015	5/2015	6/2015	7/2015	8/2015	9/2015	10/2015	11/2015	12/2015	1/2016	
Grade of System Quality Certification (ISO 9001 or ISO / TS 16949)	Rate												100	
QSI - Quality System Index	Grade												100	

CPI - COMMERCIAL POSTURE INDEX



The CPI (Commercial Posture Index) is calculated by the following criteria:

Flexibility in Negotiation:

Objective: Measure how much the supplier is flexible relative to Technical Proposals and Price.

Response Time of Quotations:

Objective: Inform if the supplier sent the quotation within the limit time.

Agility and Availability for Service and Troubleshooting:

Objective: Assess if the supplier has been available when sought by Tupy and solves problems with agility.

Proposals and Projects of Saving and Cost Reduction:

Objective: Assess if the supplier presented some proposal for cost reduction in the annual period.

Obs.: The saving and cost reduction may be related to productivity increased, income increased and optimizations that can bring favorable commercial results to Tupy.

Conformity with Procedures Tupy:

Objective: Assess if the supplier has served all procedures Tupy in the monthly evaluation.

The CPI s obtained using the following formula :

$$IPC = Flexibility\ in\ Negotiation + Response\ Time\ of\ Quotations + Agility\ and\ Availability\ for\ Service\ and\ Troubleshooting + Proposals\ and\ Projects\ of\ Saving\ and\ Cost\ Reduction + Conformity\ with\ Procedures\ Tupy$$

Rate 20: Satisfied criteria
Rate 10: Partially satisfied
Rate 0: No satisfied

Category: CPI - COMMERCIAL POSTURE INDEX	Index	Biannual Average	2/2015	3/2015	4/2015	5/2015	6/2015	7/2015	8/2015	9/2015	10/2015	11/2015	12/2015	1/2016	Biannual Average
Flexibility in Negotiation														20	
Response Time of Quotations														20	
Agility and Availability for Service and Troubleshooting														20	
Proposals and Projects of Saving and Cost Reduction														0	
Conformity with Procedures Tupy														20	
CPI - Commercial Posture Index	Grade													80	0,00

