



# NATIONAL PETROCARBON (PVT.) LTD.



## COMPANY



NATIONAL PETROCARBON (PVT) LTD

ESTABLISHED SINCE :  
1980

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PLANT TEL # :  
(92-21) 34721562



## CORPORATE PHILOSOPHY

It is the customer satisfaction which determines who, in the end gets business and stays in it.



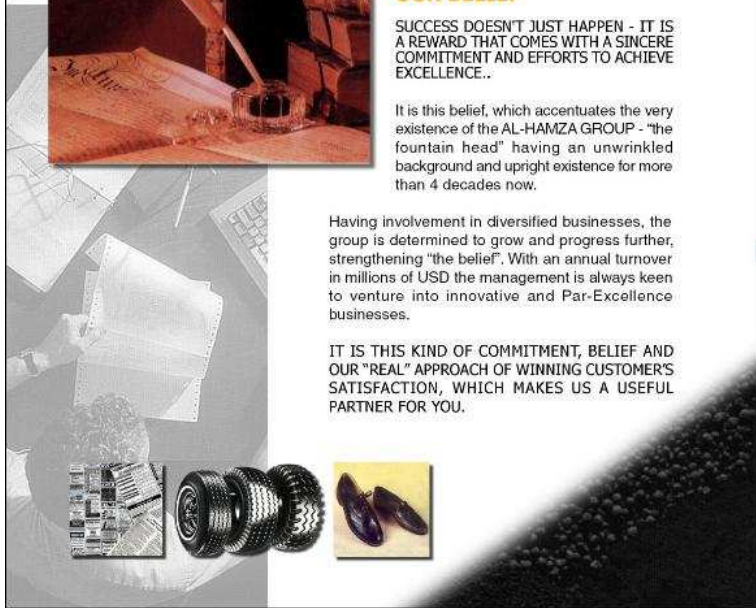
### OUR BELIEF

SUCCESS DOESN'T JUST HAPPEN - IT IS A REWARD THAT COMES WITH A SINCERE COMMITMENT AND EFFORTS TO ACHIEVE EXCELLENCE..

It is this belief, which accentuates the very existence of the AL-HAMZA GROUP - "the fountain head" having an unwrinkled background and upright existence for more than 4 decades now.

Having involvement in diversified businesses, the group is determined to grow and progress further, strengthening "the belief". With an annual turnover in millions of USD the management is always keen to venture into innovative and Par-Excellence businesses.

IT IS THIS KIND OF COMMITMENT, BELIEF AND OUR "REAL" APPROACH OF WINNING CUSTOMER'S SATISFACTION, WHICH MAKES US A USEFUL PARTNER FOR YOU.





## QUALITY POLICY



We are committed to produce high quality of Carbon Black to the complete satisfaction of our Customers. The first principle is quality, which is related to every single person working at every level to make our company a model successful Organization.

Our service is based on various international Standards for quality. To improve quality and check the reliability of its products, NPC adheres to the following principles.

- Customer's satisfaction and in time deliveries of our products
- Provide best quality products at a reasonable and competitive price.
- Achieve quality excellence by preventive techniques instead of corrective techniques.
- Proper training and enhancing the skill of our staff.
- Comply with ISO 9001:2000 standards, continuous improvements, reviews of our systems, achieve our objectives and goals.





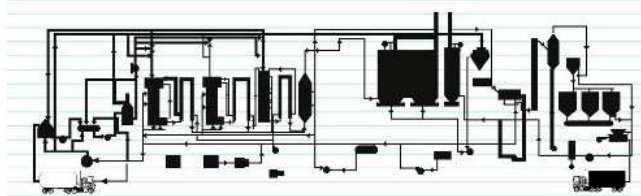
## INTRODUCTION

M/s. National Petrocarbon (Pvt) Ltd (NPC) is the first and only manufacturing unit in Pakistan capable of producing Carbon Black, a raw material used in Tyre & Rubber Industry. Commercial operation at NPC started in the year 1980. Since then, all the requirements of Rubber and Tyre Industry of Pakistan are being met adequately. The industry was privatized by the Government and purchased by Al-Hamza Group of Companies in 1996 after which extensive BMR was carried out on the plant. NPC's Carbon Black is produced according to ASTM specifications. NPC's product is tested and approved by M/s. General Tire International Co., AKRON, OHIO, U.S.A. Besides meeting country's demand, Carbon Black is also exported to Sri Lanka, Bangladesh, Tanzania, Zimbabwe, Mozambique, Kenya, South Korea and Dubai.





## EXPERTISE



During 30 years period, since its inception, the organization has developed expertise in product manufacturing due to which the total demand of major grades used by the Tyre & Rubber Industry in Pakistan is being met adequately. The industry competes with Carbon Black manufactures elsewhere under the free Market Economy conditions as our technical team can meet all possible requirements of the customers.





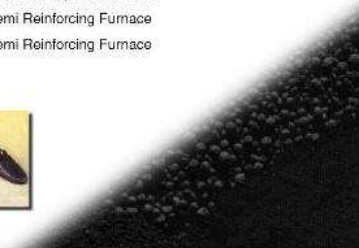
## CARBON BLACK GRADE

### CARBON BLACK GRADE FOR RUBBER AND TYRE INDUSTRY



NPC Manufactures the following grades of Carbon Black.

NATIONALCARB	N-220	(ISAF) Intermediate Super Abrasion Furnace
NATIONALCARB	N-330	(HAF) High Abrasion Furnace
NATIONALCARB	N-339	(HAF-HS-Imp) High Abrasion Furnace - High Structure - Improved
NATIONALCARB	N-375	(HAF-HS-Imp) High Abrasion Furnace - High Structure - Improved
NATIONALCARB	N-550	(FEF) Fast Extrusion Furnace
NATIONALCARB	N-660	(GPF) General Purpose Furnace
NATIONALCARB	N-762	(SRF) Semi Reinforcing Furnace
NATIONALCARB	N774	(SRF) Semi Reinforcing Furnace





Our Carbon Black competes favourably in quality with other established brands of carbon black. It is available in 22.23 Kg/25 Kg three ply paper bags, stacked on wooden pallets, oversleeved in polypropylene for export to make packing moisture resistant, safe and non-pollutant. Normally, one pallet contains one Metric Ton of carbon black. Packing requirement of customers, if different from our standard packing can be met with mutual consultation.





## PROPERTIES OF CARBON BLACK

### INFLUENCE OF CARBON BLACK ON RUBBER PROPERTIES

Rubber Property	As Structure Increase	As Surface Area Increases	As Loading Increases
Maxing Temperature	+	+	+
Dispersion	†	-	-
Viscosity	+	+	+
Green Strength	+	+	+
Die Swell	-	-	-
Extrusion Quality	†	-	*
Scorch Safety	-	-	-
Modulus	+	+	+
Tensile	-	+	*
Elongation	-	-	-
Hardness	+	+	+
Tear Resistance	-	+	*
Compression Set	+	+	-
Hysteresis Loss	+	+	-
Resilience	-	-	*
Heat Build up	+	+	+
Abrasion Resistance	+	+	*

\* = Increase to a maximum then decreases

+ = Increasing

- = Decreasing

† = Improves





## PROPERTIES OF CARBON BLACK

### RUBBER TESTS OF HARD GRADE @ 293 DEG F:

Cure:- RB No. S:-	300% Moduls, Mpa		Min. Tenelle, Mpa		Min. Elongation, PCT	
	15'	30'	15'	30'	15'	30'
N-220	12.90	16.24	26.92	29.42	520	490
Difference	+ 1.32	+ 0.92	+ 0.72	+ 0.70	- 50	+ 10
N-330	14.20	16.34	28.27	27.32	528	470
Difference	+ 2.02	+ 1.09	+ 2.07	- 0.40	- 45	- 10
N-339	14.55	17.46	27.93	27.03	510	440
Difference	+ 2.97	+ 2.17	+ 1.66	- 0.89	- 90	- 60
N-375	14.05	17.34	29.03	29.13	520	420
Difference	+ 2.48	+ 2.05	+ 2.86	- 0.41	- 45	- 30

### RUBBER TESTS OF SOFT GRADE @ 293 DEG F:

Cure:- RB No. S:-	300% Moduls, Mpa		Min. Tenelle, Mpa		Min. Elongation, PCT	
	15'	30'	15'	30'	15'	30'
N-560	13.65	15.96	25.37	24.48	500	450
Difference	+ 2.07	+ 0.86	- 0.83	- 3.24	- 70	- 30
N-600	10.89	13.55	24.31	24.41	550	490
Difference	- 0.83	- 1.76	- 1.86	- 3.31	- 20	+ 10
N-762	9.45	11.14	26.29	25.49	590	540
Difference	- 2.13	- 4.37	+ 0.69	- 2.23	+ 20	- 50
N-774	9.44	11.62	26.09	25.79	590	535
Difference	- 2.14	- 3.68	- 0.20	- 1.93	+ 20	- 55

May 1995



## PROPERTIES OF CARBON BLACK

### PHYSICO-CHEMICAL DATA

GRADE	Unit	ASTM Tests	N-220 (SAF)	N-330 (MAF)	N-339 (MAF-HS-imp)	N-375 (MAF-HS-imp)	N-550 (TDF)	N-600 (SFP)	N-762 (SRF)	N-774 (SRF)
IOBINE ADSORPTION	mg/gm	D-1510	118-124	79-83	89-94	88-94	80-88	33-38	23-29	24-30
D.B.P. ADSORPTION	cc/100g	D-2414	110-118	99-105	118-124	110-118	118-124	86-92	61-67	69-75
BULK/POUR DENSITY	Bulk	D-1512	21-23	22-24	20-23	20-23	22-24	25-28	21-24	20-22
TOL DISCOLORATION	Min. %	D-1618	80	85	75	70	85	85	80	80
HEAT LOSS 2hrs/100 DEG C	Max. %	D-1306	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Fines US No. 120 Days 5'	Max. %	D-1308	6	6	6	6	6	6	6	6
Sieve Residue No. 255	Max. %	D-1514	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Sieve Residue No. 25	Max. %	D-1514	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Specific Gravity	25/25		1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Sulphur	Max. %		1	1	1	1	1	1	1	1
Ash	Max. %	D-1306	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70
PH	Min. %	D-1312	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5



## VALUED CUSTOMERS

- GENERAL TYRE & RUBBER CO. OF PAKISTAN LTD.
- SERVICE INDUSTRIES LTD.
- MIAN TYRE & RUBBER (PVT) LTD.
- UNITED RUBBER (PVT) LTD.
- BATA PAKISTAN LTD.
- TIRE RETREADING PLANT, NLC.
- DARSON INDUSTRIES (PVT) LTD.
- FRONTIER TYRE (PVT) LTD.
- ALLIED RUBBER (PVT) LTD.
- CECO RUBBER INDUSTRIES (PVT) LTD.
- DIAMOND RUBBER MILLS
- PAKISTAN INK & PACKAGING
- MAGNA TEXTILE
- LYRA SHOE
- ARMY WELFARE SHOE PROJECT





## GROUP OF COMPANY

### AL-HAMZA GROUP

NATIONAL PETROCARBON (PVT.) LTD

AL-HAMZA TRADING & SHIP BREAKING COMPANY

AL-HAMZA SHIP BREAKING CO.

GLOBALTRADEWAYS LTD

### FIELD OF OPERATIONS

- CARBON BLACK MANUFACTURING
- RICE & FOOD GRAIN SUPPLIERS
- FERTILIZER
- CHROME ORE, MANGNESE ORE SUPPLIERS
- SHIPBREAKING & STEEL SUPPLIER
- COMPUTER SOFTWARE AND  
HARDWARE SERVICES PROVIDER

### GROUP

A competent team comprising of highly qualified professional Engineers, Chartered Accountants, Management Accountants, MBA's, Lawyers, Analyzers etc meeting high standard of performance in their respective fields.



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